NM1 - ____57____

GENERAL CORRESPONDENCE

YEAR(S):

2013 - Present

State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez

Governor

David Martin Cabinet Secretary-Designate

Brett F. Woods, Ph.D. Deputy Cabinet Secretary Jami Bailey, Division Director
Oil Conservation Division



December 9, 2013

Adrian Holman DNCS Properties, LLC 2028 E. Hackberry Place Chandler, Arizona 85286

RE: Notice of Administrative Completeness Determination

DNCS Properties. LLC - DNCS Environmental Solutions

Location: S/2 of Section 31, Township 17 South, Range 33 East and N/2 of Section 6,

Township 18 South, Range 33 East, NMPM, Lea County, New Mexico

Dear Mr. Holman:

Pursuant to 19.15.36.8(E) NMAC, the Oil Conservation Division (OCD) has reviewed your Surface Waste Management Facility application, dated November 7, 2013, and has found it to be administratively complete. Given the administrative completeness determination, you may now proceed to the notice as specified in 19.15.36.9(A) NMAC. As the applicant, you are required to furnish proof to OCD that required notices have been given. Please provide this proof to OCD as soon as possible. Proof of notice may begin the 30 day public comment period.

OCD will also provide notice of its administrative completeness determination within 30 days from the date of this letter per 19.15.36.9(B) NMAC. The public has 30 days to comment from the date of notice provided by the applicant or the date that OCD distributes notice, whichever is later. (See 19.15.36.9(C) NMAC)

The determination of administrative completeness does not mean that the application meets the technical requirements of 19.15.36 NMAC. OCD will now evaluate the technical merits of your application. Within 60 days after the end of the public comment period, OCD will issue its tentative decision regarding your application. (See 19.15.36.9(D) NMAC)

If you have any questions, please feel free to Brad Jones at <u>brad.a.jones@state.nm.us</u> or (505) 476-3487.

Sincerely,

Scott Dawson Deputy Director

SD/baj

Cc:

OCD District I Office, Hobbs

Keith Gordan, Gordon Environmental, Inc., 213 S. Camino Del Pueblo, Bernalillo, NM 87004

PART 36 CHECKLIST FOR ADMINISTRATIVELY INCOMPLETE APPLICATIONS

19.15.36.8 NMAC - SURFACE WASTE MANAGEMENT FACILITY PERMITS AND APPLICATION REQUIREMENTS:

/	(1) the names and addresses of the applicant and principal officers and owners of 25 percent or more of the applicant;
/	(2) a plat and topographic map showing the surface waste management facility's location in relation to governmental surveys (quarter-quarter section, township and range); highways or roads giving access to the surface waste management facility site; watercourses ; fresh water sources , including wells and springs; and inhabited buildings within one mile of the site's perimeter;
/	(3) the names and addresses of the surface owners of the real property on which the surface waste management facility is sited and surface owners of the real property within one mile of the site's perimeter;
V	(4) a description of the surface waste management facility with a diagram indicating the location of fences and cattle guards, and detailed construction/installation diagrams of pits, liners, dikes, piping, sprayers, tanks, roads, fences, gates, berms, pipelines crossing the surface waste management facility, buildings and chemical storage areas;
	(5) engineering designs, certified by a registered professional engineer, including technical data on the design elements of each applicable treatment, remediation and disposal method and detailed designs of surface impoundments;
/	(6) a plan for management of approved oil field wastes that complies with the applicable requirements contained in 19.15.36.13 NMAC (Siting and Operational Requirements – See Part 2 below), 19.15.36.14 NMAC (Landfills – See Part 3 below), 19.15.36.15 NMAC (Landfarms – See Part 4 below), and 19.15.36.17 NMAC (Ponds – See Part 5 below);
/	(7) an inspection and maintenance plan that complies with the requirements contained in Subsection L of 19.15.36.13 NMAC; 36.13L. Each operator shall have an that includes the following: (1) monthly inspection of leak detection sumps including sampling if fluids are present with analyses of fluid samples furnished to the division; and maintenance of records of inspection dates, the inspector and the leak detection system's status; (2) semi-annual inspection and sampling of monitoring wells as required, with analyses of ground water furnished to the division; and maintenance of records of inspection dates, the inspector and ground water monitoring wells' status; and (3) inspections of the berms and the outside walls of pond levees quarterly and after a major rainfall or windstorm, and maintenance of berms in such a manner as to prevent erosion.

/	(9) a closure and post closure plan, including a responsible third party contractor's cost estimate, sufficient to close the surface waste management facility in a manner that will protect fresh water, public health, safety and the environment (the closure and post closure plan shall comply with the requirements contained in Subsection D of 19.15.36.18 NMAC); (See Part 6 below).
	(10) a contingency plan that complies with the requirements of Subsection N of 19.15.36.13 NMAC and with NMSA 1978, Sections 12-12-1 through 12-12-30, as amended;
	(11) a plan to control run-on water onto the site and run-off water from the site that complies with the requirements of Subsection M of 19.15.36.13 NMAC;
	(12) in the case of an application to permit a new or expanded landfill , a leachate management plan that describes the anticipated amount of leachate that will be generated and the leachate's handling, storage, treatment and disposal, including final post closure options;
	(13) in the case of an application to permit a new or expanded landfill, a gas safety management plan that complies with the requirements of Subsection O of 19.15.36.13 NMAC;
	(14) a best management practice plan to ensure protection of fresh water, public health, safety and the environment;
	(15) geological/hydrological data including:
	(a) a map showing names and location of streams, springs or other watercourses, and water wells within one mile of the site;
/	(b) laboratory analyses, performed by an independent commercial laboratory, for major cations and anions; BTEX; RCRA metals; and TDS of ground water samples of the shallowest fresh water aquifer beneath the proposed site;
	(c) depth to, formation name, type and thickness of the shallowest fresh water aquifer;
/	(d) soil types beneath the proposed surface waste management facility, including a lithologic description of soil and rock members from ground surface down to the top of the shallowest fresh water aquifer;
	(e) geologic cross-sections;
	(f) potentiometric maps for the shallowest fresh water aquifer; and
<u> </u>	
	(g) porosity, permeability, conductivity, compaction ratios and swelling characteristics for the sediments on which the contaminated soils will be placed;
	Lan an a
	(16) certification by the applicant that information submitted in the application is true, accurate and complete to the best of the applicant's knowledge, after reasonable inquiry; and
	(17) other information that the division may require to demonstrate that the surface waste management facility's operation will not adversely impact fresh water, public health, safety or the environment and that the surface waste management facility will comply with division rules and orders.

Owner: DNCS Properties, LLC – DNCS Environmental Solutions

Location: S/2 of Section 31, Township 17 South, Range 33 East and N/2 of Section 6, Township 18 South, Range 33 East,

NMPM, Lea County, New Mexico

Reviewer: Brad A. Jones
Date: December 9, 2013

Jones, Brad A., EMNRD

From: Dacia Tucholke <DTucholke@gordonenvironmental.com>

Sent: Tuesday, September 24, 2013 11:13 AM

To: Jones, Brad A., EMNRD; VonGonten, Glenn, EMNRD

Cc: Keith Gordon; Pamela Gonzales; Mark Turnbough; Ckilmer@golder.com; Charles Fiedler

Subject: Updated Vadose Zone Monitoring Plan - DNCS

Attachments: 0-DNCS-SiteVadoseMonitoring-Proposal_Updated_09-2013.pdf

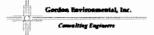
Mr. Jones and Mr. von Gonten,

Please find attached for your review, the updated *Proposal for Vadose Zone Monitoring* for the proposed DNCS Environmental Solutions Surface Waste Management Facility in Lea County, New Mexico.

Thank you.

Dacia R. Tucholke Project Manager Gordon Environmental, Inc. 213 S. Camino del Pueblo Bernalillo, NM 87004 P: 505.867.6990

P: 505.867.6990 F: 505.867.6991



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Summary of Geotechnical Laboratory Testing Results **DNCS Properties, LLC Site**

Depth (ft bgs) CJSCJ (1883) Pass H (%) Pass H (%) LL-PI (PCF) Positive (%) Moisture (%) Moisture (%) Positive (PCF) Positive (%) Positive (%) </th <th>2</th> <th>Sample</th> <th>0001</th> <th>Grain Si</th> <th>n Size Distribution</th> <th>ibution</th> <th>Atterberg</th> <th>Natural Dry</th> <th>Natural</th> <th>Standarc</th> <th>Standard Proctor</th> <th></th> <th>Domotive</th>	2	Sample	0001	Grain Si	n Size Distribution	ibution	Atterberg	Natural Dry	Natural	Standarc	Standard Proctor		Domotive
(ft bgs) Hat (%) #40 (%) LL - Pi (PCF) (%) Density (PCF) Moisture (%) 5-6.5 SP-SC 100 93 13.0 2.8 4.7 2.8	Sample Number	Depth	Closs ²	Pace	Pace	Pace	Limits	Density	Moisture4	Max Drv	Ontimirm	rermeability (cm/sec)	rorosity
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50.25-50.75 SC 100 94 47.1 32-18 112.3 7.6 99 9.72E-07 65-66 SC 100 77 18.0 38-24 112.3 3.3 9.72E-07 85-90 CL 100 88 82.1 38-24 112.3 3.3 101E-07 115-120 SC 100 66 21.0 38-24 112.3 3.3 101E-07 115-120 SC 100 66 21.0 38-24 112.3 3.3 101E-07 101E-07 130-135 SC 100 62 20.0 75 31.0 8.7 11.4 7.4 101E-07 101E-07 145-150 SC 100 98 7.3 11.4 7.4 119.9 12.1 12.1 15-20 SC 100 98 8.9 4.9 4.9 119.9 12.1 12.1 80-85 SC 100 88 8.0 4.2 10.	B3-35CC	35-40	SP-SC	66	95	11.0			2.2	121.1	11.7		
65-66 SC 100 77 18.0 3.24 11.6 6 11.6 101E-07 85-90 CL 100 88 82.1 38-24 112.3 3.3 101E-07 101E-07 115-120 SC 100 66 21.0 82.1 12.8 101E-07 101E-07 130-135 SC 100 62 20.0 8.7 8.7 101E-07 101E-07 145-150 SC 100 62 20.0 8.7 8.7 8.8 11.4 8.8 11.4 8.8 11.4 8.8 11.4 8.8 11.4 8.8 11.4 8.8 11.4 8.8 11.4 8.8 11.4 8.8 11.4 8.8 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 <td< th=""><th>B3-50.25BR</th><th>50.25-50.75</th><th>SC</th><th>100</th><th>94</th><th>47.1</th><th>32-18</th><th>112.3</th><th>7.6</th><th></th><th></th><th>9.72E-07</th><th>32.1</th></td<>	B3-50.25BR	50.25-50.75	SC	100	94	47.1	32-18	112.3	7.6			9.72E-07	32.1
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130-135 SC 100 62 20.0 8.7 8.7 9 145-150 SC 100 75 31.0 7.4 7.4 9 15-20 SP-SC 100 98 7.3 8 4.8 119.9 12.1 9 30-35 SP-SC 100 98 7.9 4.8 119.9 12.1 9 30-31.5 SP-SC 100 98 8.9 4.9 4.9 12.1 9 80-85 CL 100 88 85.0 42-19 100.8 9.7 7.89E-07 80-85 SC 100 83 34.0 13.9 13.9 13.9 13.9 120-125 CL 100 95 93.7 38-23 100.9 2.9 10.9 10.9 10.9 10.9 10.9 10.9 10.9 10.9 10.9 10.9 10.9 10.9 10.9 10.9 10.9 10.9 10.9 10.9	B3-115	115-120	SC	100	99	21.0			12.8				
145-150 SC 100 75 31.0 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.8 7.4 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8<	B3-130	130-135	SC	100	62	20.0			8.7				
0-5 SP-SC 99 92 8.0 11.4 6.8 11.4 6.8 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11.4 </th <th>B3-145</th> <td>145-150</td> <td>SC</td> <td>100</td> <td>75</td> <td>31.0</td> <td></td> <td></td> <td>7.4</td> <td></td> <td></td> <td></td> <td></td>	B3-145	145-150	SC	100	75	31.0			7.4				
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30-35 SP-SC 100 98 7.9 4.8 119.9 12.1 7.89E-07 30-31.5 SP-SC 100 98 8.9 4.9 4.9 7.89E-07 55-55.75 CL 100 88 85.0 42-19 100.8 9.7 7.89E-07 80-85 SC 100 80 27.0 13.9 7.89E-07 100-105 SC 100 83 34.0 13.8 7.9 145-150 SC 100 83 34.0 7.9 7.9	B4-15	15-20	SP-SC	100	86	7.3			8.9				
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55-55.75 CL 100 88 85.0 42-19 100.8 9.7 7.89E-07 80-85 SC 100 80 27.0 13.9 7.89E-07 100-105 SC 100 83 34.0 13.8 7.9 120-125 CL 100 95 93.7 38-23 100.9 2.9 145-150 SC 100 83 34.0 7.9 7.9	B4-30SS	30-31.5	SP-SC	100	86	8.9			4.9				
80-85 SC 100 80 27.0 13.9 13.9 7 100-105 SC 100 83 34.0 13.8 13.8 2.9 13.8 100.9 2.9 100.9 2.9 100.9 2.9 100.9 2.9 100.9 100.9 2.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9 100.9	B4-55BR	55-55.75	CL	100	88	85.0	42-19	100.8	6.7			7.89E-07	39.1
100-105 SC 100 83 34.0 38-23 100.9 2.9 120-125 CL 100 95 93.7 38-23 100.9 2.9 7.9 145-150 SC 100 83 34.0 7.9 7.9 7.9	B4-80	80-85	SC	100	80	27.0			13.9				
120-125 CL 100 95 93.7 38-23 100.9 2.9 145-150 SC 100 83 34.0 7.9 7.9	B4-100	100-105	SC	100	83	34.0			13.8				
145-150 SC 100 83 34.0	B4-120	120-125	CL	100	95	93.7	38-23	100.9	2.9				39.0
	B4-145	145-150	SC	100	83	34.0			7.9				

Blank field indicates test not conducted

See Figure X for locations of borings and Attachment X for boring logs. Attachment X includes complete laboratory analyses by ACS.

Unified Soil Classification System: SM = silty sand; SP = poorly graded sand; SC = clayey sand; ML = low-plasticity silt; CL = low-plasticity clay; CH = high-plasticity clay | LL = liquid limit; Pl = plasticity index; NV = non viscous; NP = non plastic

Gravimetric basis

R = remolded sample; I = in-situ sample; (DS) = direct shear test on sample X

Combined Samples used for Standard Proctor on Boreholes 3,4,5

Where Porosity = I - (Natural Dry Density / Specific Gravity) For Porosity a Specific Gravity of 165.4 PCF was used

Summary of Geotechnical Laboratory Testing Results

DNCS Properties, LLC Site

Sample Number 1 85-10 85-30CC 85-30SS 85-30SS 85-70SS 85-70SS 85-80 85-90 85-90	Sample Depth (ft bgs) 10-15' 25-30 30-35 30-31.5 45-50 70-70.5 80-85 90-95	USCS Class ² Class ² SC SP-SC SP-S	Gra Pass #4 (%) 98 98 100 100 100 100 100 100	Grain Size Distribution ss Pass Pass 87 13.0 8 92 11.0 9 97 8.8 0 97 8.8 11.0 0 85 7.2 0 93 84.0 0 66 19.0 0 69 22.0 0 67 21.0	Pass #200 (%) 13.0 11.0 8.8 11.0 7.2 84.4 19.0 22.0 21.0	Atterberg Limits ³ LL - PI 41-22	Z	Natural Dry Density (PCF)	atural Dry Natural Density Moisture (PCF) (%) 4.2 0.7 4.3 4.3 4.8 6.1 90.6 13.1 12.2 12.5	Natural Moisture Ma (%) Densi 4.2 0.7 4.3 1 4.8 6.1 13.1 12.2 12.5 14.4	Natural Moisture M (%) Dens 4.2 0.7 4.3 4.8 6.1 13.1 12.2 12.5 14.4	Natural Moisture Ma (%) Densi 4.2 0.7 4.3 1 4.8 6.1 13.1 12.2 12.5 14.4
0	80-85 90-95	SC	100	66	19.0 22.0			12.2 12.5				
B5-105	105	SC	100	67	21.0			14.4				
B5-145	145-150	5 ×	100	90	85.5	36-21	107.2	8.4	40	.4	.4	.0 .4 7.54E-07
B 6 0	0 4	СВ	100	00	37			2 1				
B6-7	07-13'	SC	100	93	15.0			7	7.0	.0	.0	.0
B6-13	13-27	SC	88	70	21.0			3	3.5	.5	.5	.5
B6-20	20-40	SC	95	83	14.0			4	4.1	.1 118.2	1	118.2
B6-27	27-48	SC	97	86	16.0			_	4.0	1.0	.0	.0
B6-60	60-75	SC	100	90	32.9	25-11	1000			3.1	 	3.1 1.13E-05

Notes:

Blank field indicates test not conducted

See Figure X for locations of borings and Attachment X for boring logs. Attachment X includes complete laboratory analyses by ACS.

Unified Soil Classification System: SM = silty sand; SP = poorly graded sand; SC = clayey sand; ML = low-plasticity silt; CL = low-plasticity clay; CH = high-plasticity clay

 $^{3}LL = liquid\ limit;\ PI = plasticity\ index;\ NV = non\ viscous;\ NP = non\ plastic$

Gravimetric basis

 $R = remolded \ sample; I = in-situ \ sample; (DS) = direct \ shear \ test \ on \ sample \ X$

Combined Samples used for Standard Proctor on Boreholes 3,4,5

For Porosity a Specific Gravity of 165.4 PCF was used Where

is used Where Porosity = I - (Natural Dry Density / Specific Gravity)

DNCS Properties, LLC Area Wells (2-Mile Radius)

Owner or OCD Designation	OSE Permit Number	Location PLS Location Lat Location	Location Lat	Location Long	Ose	LS Elev	2	¥	WL Elev.	Date	WBZ	Top	Bottom	WBZ	Trc Trc elev	elev Tsr	Driller	er Comments or source
			D.dddd	D.dddd								WBZ	WBZ thic	thickness to	top		Yield	9
Conoco Oil MCA Battery 4 #189		17.32.26.41000	32.803679	103.735041	000	3962	1024 Log, C	1024 Log, cased to 1062	2		Trc	710	850	0	80 38	3885		OCD Record 5/11/78
Continental Oil Pearsall BX #2		17.32.34.241111			00CD	3952	casing to 35	casing to 3515, redbeds to 792	to 792						64 38	3888		OCD 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 2	244 39	3944		OSE Well Record
								201.35		3/14/1961								GAI BLM 1978
Oil Test		17.33.29.34411			Oil Test	4044		61.43	3982.57	2/16/1971	To/Qal							GAI BLM 1978
Conoco MCA Unit Battery 4 #133		17.33.30.11000	32.801966	103.709129	000	4033	casing to 35	113, redbeds	s to 515, anh	casing to 3913, redbeds to 515, anhydrite 515-533	-				28 40	4005	_	OCD Record 5/11/78
Conoco MCA Unit Battery 4 #134		17.33.30.12000			00CD	4057	casing to 11	casing to 1185, redbeds to 1145	s to 1145			-		_	45 40	4012		OCD Record 5/11/78
Conoco MCA Unit Battery 4 #135		17.33.30.14000			OCD	4062	casing to 20	_							85 36	3977		OCD Record 5/11/78
Conoco MCA Unit Battery 4 #197		17.33.30.31111	32.80457	103.710241	000	4037	casing to 35	63, redbeds	s to 791, san	casing to 3963, redbeds to 791, sandstone 628-650	0				96 35	3941		OCD Record 5/11/78
Walter Williams stock well		17.33.30.124	32.810128	103.703623		4045		20	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	00C	4055	casing to 1199	661						-	145 35	3910	_	OCD Record 5/11/78
DNCS Properties LLC Boring 5		17.33.31.	32.78815	103.69491		3979.03	150	λıp						0	65 391	3914.03		DNCS Site Boring Log
DNCS Properties LLC Boring 6			32d46m54.1s 103d42m	103d42m27.1s		3939.5	75	dηγ						0	67 387	3872.5		DNCS Site Boring Log
OXY USA Inc.	CP 758	18.33.4.34233	32.771967	103.669204	exp	3989	250	quλ		5/10/1991	:			_	65 35	3924		OSE Well Record
DNCS Properties LLC Boring 3			32.77692	103.70411	dxə	3940.23	150	dry		2/6/2013					45 389	3895.23		DNCS Site Boring Log
DNCS Properties LLC Boring 4			32.777	103.69465	dxə	3968.20	150	dry		2/9/2013		_			50 39:	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 38	3893		OSE Well Record
	L 6131	18.33.8.213	32.766525 103.68429	103.68429			194	100				130	193	63	_			OSE Waters POD summary

Proposal for Vadose Zone Monitoring RECEIVED OCD DNCS Properties, LLC Site Lea County, New Mexico

August 2013

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Bernalillo, New Mexico 87004

RECEIVED OCD

August 23, 2013

2013 AUG 26 A 8: 03

Mr. Brad Jones and Mr. Glenn von Gonten Environmental Bureau - Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Proposal for Vadose Zone Monitoring DNCS Properties, LLC [542.01.01/03]

Gentlemen:

On behalf of our client, DNCS Properties, LLC, we are pleased to provide for your review the attached *Proposal for Vadose Zone Monitoring* for the Surface Waste Management Facility at the DNCS Properties, LLC site in Lea County, New Mexico. The Proposal is attached as an electronic file (PDF). We are also providing two complete hard copies to facilitate your review.

As you will note, we relied extensively upon the technical resources that you identified to us. These data align exceptionally well with the results of the site-specific drilling program; and with other available published and unpublished resources.

Thank you for your assistance, and we look forward to your questions and comments. We would be pleased to schedule a meeting to discuss the Proposal if that is your desire.

Very truly yours,

Charles W. Fiedler, P.E.

Project Director

Gordon Environmental, Inc.

Mr. Clay Kilmer, P.G. Senior Hydrogeologist Golder Associates, Inc.

L. Tuller for

Attachment: Proposal for Vadose Zone Monitoring, DNCS Properties, LLC

cc: Mr. I. Keith Gordon, P.E., Principal, GEI

Mr. Mark Turnbough, Ph.D.

Proposal for Vadose Zone Monitoring DNCS Properties, LLC Site Lea County, New Mexico

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Proposal for Vadose Zone Monitoring DNCS Properties, LLC Site Lea County, New Mexico

1.0 INTRODUCTION

The DNCS Properties, LLC site (DNCS site) is located in western Lea County, New Mexico. The site is a roughly 495-acre tract located in Section 31, Township 17 South, Range 32 East and Section 6, Township 18 South, Range 33 East. A Permit for a Surface Waste Management Facility for oil and gas waste is sought under provisions set forth the Oil Conservation Division (OCD) Regulations in 19.15.36 NMAC (i.e., "Part 36"). Part 36 provisions include facility siting criteria that include minimum depth to groundwater below the lower limit of waste of 50 feet for facilities accepting waste having chloride content up to 500 milligrams per kilogram (mg/kg) and 100 feet for facilities accepting waste having chloride content exceeding 500 mg/kg.

Part 36 Section 14.B includes requirements for groundwater monitoring at facilities where "fresh groundwater" exists, unless "otherwise approved by the division". Fresh groundwater is defined as groundwater that contains less than 10,000 milligrams per liter (mg/l) of total dissolved solids (TDS).

The DNCS site is located in an area where few shallow groundwater resources are known to exist. Information obtained from six borings that were recently advanced on the tract provide adequate demonstration that the minimum depth to the shallowest groundwater bearing zone on the property exceeds 150 feet below land surface; and is more than 100 feet below projected landfill base grade levels. The northwest portion of the site is planned for oilfield waste disposal, which has been specifically demonstrated to possess in excess of the required 50-foot vertical setback to groundwater. Based upon projected data from wells in the vicinity, it is anticipated that the shallowest water bearing zones on the DNCS tract are on the order of six hundred feet below projected waste cell base grades, and are vertically separated from the proposed facility by more than five hundred feet of dense non water-bearing shale.

The proposed facility design proposes double HDPE lining of waste cells with an intervening protective geonet leak detection layer, as well as installation of equipment and operational provisions for leachate monitoring and collection. Based upon the well documented shallow stratigraphy in the vicinity of the proposed facility, it is anticipated that if leakage were to occur at the facility, the leachate would migrate vertically through unconsolidated alluvium and would potentially pool on the upper surface of laterally extensive dense shale redbeds that are demonstrated to be present at approximately 50 feet below grade at the site. Available subsurface stratigraphic information for the site and surrounding area indicates that any potential leakage would migrate downslope above the alluvium-shale interface to the west or northwest.

As the proposed facility design includes double HDPE lined waste cells and provisions for leak detection and leachate extraction, and since the facility is underlain by laterally extensive dense shale and projected depth to groundwater is great, vadose zone monitoring at the shale-alluvium interface is proposed as the most effective mechanism for detection monitoring for the site. Due to the large anticipated depth to groundwater at the site, as well as the low hydraulic conductance of the shale bedrock, it is anticipated that properly positioned and completed vadose zone monitoring wells at the site would detect leakage from the facility long before groundwater monitoring wells at great depth (i.e., > 500 feet) could, and thus, would provide a greater level of protection to any groundwater resources present at the facility.

Similar strategies have been deployed nationally where groundwater exists at great depth, and there are intervening zones of dense and impermeable soils. In New Mexico, this technology, which consists of a two phase vadose zone monitoring approach (i.e., double-liner with leak detection coupled with sentry wells) has been effectively implemented at least three (3) Subtitle D MSW Landfills approved by NMED; including one in Lea County.

The following sections of this submittal provide specific descriptions of the subsurface stratigraphy and water-bearing zones in the vicinity of the proposed facility, as well as proposed design, installation methods and operational strategy for vadose zone monitoring at the site.

2.0 HYDROGEOLOGIC SETTING

The DNCS site is located in western Lea County, and is situated in the Upper Pecos-Black watershed (USGS cataloging Unit 1306001), near the western boundary of the Monument-Seminole Draws watershed (USGS cataloging unit 12080003). The physiography and hydrogeology of the area are described by Nicholson and Clebsch (1961) and the physiography of southern Lea County and eastern Eddy County are shown in **Figure 1** (Nicholson and Clebsch, 1961 and Kelly, 1979). The boundary between the Upper Pecos-Black and Monument-Seminole Draws is formed by the Mescalero Ridge (alternately called "the Caprock"), which trends north-south along the Chaves and Lea County line from northwest Lea County approximately to Maljamar, where it turns southeast, passing approximately 1.75 miles east of the DNCS site, continuing south past the Texas state line east of Eunice. The Mescalero Ridge is also the boundary between the High Plains province to the east and the Querecho Plains province to the west.

The Mescalero Ridge is the western terminus of the Tertiary Ogallala Formation, which is a thick sequence of unconsolidated to semiconsolidated sand, silt and gravel; which were deposited on an erosional surface incised into Triassic Chinle shale in much of southeastern New Mexico. The Ogallala has been removed by erosion west of Mescalero Ridge and a veneer (generally less than 100 feet) of Quaternary age unconsolidated Ogallala detritus and aeolian sands mantle the Triassic Chinle in this area. Well-cemented sections (i.e., caliche) of the Ogallala Formation are the ledge-forming units of the Caprock bluffs.

The DNCS site is located approximately 1.75 miles west of Mescalero Ridge in the eastern portion of an area known as the Querecho Plains. The location of the DNCS site, as well as the Mescalero Ridge and the Querecho Plains, are shown in the vicinity map provided as **Figure 2**. Shallow subsurface geologic units at the DNCS site include approximately 50 feet of unconsolidated Quaternary sand, silt, gravel and cacliche above Triassic shale bedrock of the Chinle Formation (redbeds), as demonstrated by the site-specific drilling and testing results.

2.1 Groundwater Occurrence and Site Conditions

Water-bearing geologic units in the vicinity of the DNCS site include the Tertiary Ogallala Aquifer, shallow Quaternary alluvial aquifers, and the Santa Rosa Sandstone in the lower portion of the Triassic Chinle shale. The Ogallala Aquifer can be a prolific water-bearing unit in the region east of Mescalero Ridge, but it is absent west of Mescalero Ridge in the area of the DNCS site. In the Querecho Plains area, thin laterally discontinuous groundwater saturations are occasionally present in the basal alluvium overlying the Triassic Chinle. The Santa Rosa Sandstone is present at depth throughout much of southern Lea County, and this unit can locally produce modest quantities of groundwater.

Configuration of the top of the Chinle shale (redbeds) is an important control on water availability in the Ogallala Aquifer, as well as in the alluvial aquifers in the area. The Chinle shale redbeds were exposed and dissected by erosion throughout the region prior to deposition of the Ogallala. The most prolific Ogallala production occurs in areas where stream channels were cut into the Chinle shale and subsequently filled with coarse fluvial Ogallala detritus. The resulting buried paleochannels are areas where saturated aquifer thickness is greatest, and the best water-bearing properties are present.

In the Querecho Plains area, the Ogallala was removed by erosion and the Chinle shale section was reexposed and dissected by drainages associated with the Pecos River catchment to the southwest. Shallow groundwater in this region is generally restricted to paleochannels and other low-lying areas that were incised into the Triassic redbeds bedrock prior to deposition of the Quaternary alluvium over the shale bedrock. Configuration of the top of the Chinle redbeds as an important control on groundwater availability was recognized by Nicholson and Clebsch and they utilized Chinle shale formation top surface data obtained from oil exploration seismic shot holes to prepare a structure contour map of the top of the Chinle Shale redbeds covering southern Lea County (Nicholson and Clebsch, 1961, Plate 1). The Nicholson and Clebsch structure contour data was projected on the project vicinity map in **Figure 2** (red isopleths).

The geometry of land surface and underlying geologic units, as well as groundwater saturations in the vicinity of the DNCS site are depicted in the hydrogeologic cross-section shown on **Figure 3**. This diagram indicates that no shallow alluvial groundwater is present at the DNCS site, consistent with site-specific drilling results. Based upon information projected from nearby petroleum wells, the shallowest potential water-bearing zone is the Santa Rosa Sandstone (lower Triassic Chinle), which is approximately 600 feet below grade at the DNCS site.

Table 1 provides a summary of information from water wells and other oil wells and/or borings in the vicinity of the DNCS site. Data included in **Table 1** were obtained from the following sources:

- Logs from geotechnical borings at the DNCS tract (Attachment A-1)
- Well and water level data from Geohydrology Associates Inc. (1978) (Attachment A-2)
- Water well data from Nicholson and Clebsch (1961)
- New Mexico Office of the State Engineer (NMOSE) Well Records (Attachment A-3)
- Summary oil well data on shallow stratigraphy and water-bearing units derived from New Mexico Oil Conservation Division records and recorded in NMOSE Well Record files (Attachment A-3)

Copies of information from these sources are included with this submittal in the abovereferenced sections of **Attachment A**.

Wells and borings in the vicinity of the DNCS site that yielded data of significance with regard to groundwater occurrence or potential are plotted on the map provided as **Figure 2**. Few water wells are present in the Querecho Plains area in the vicinity of the DNCS site. Soil borings advanced on the DNCS tract found dry alluvium on top of the redbeds and no saturation in approximately the upper 100 feet of the redbeds at the site (copies of the logs from these borings are included in **Attachment A-1**).

A few shallow alluvial wells are present in close proximity to Mescalero Ridge, including the Williams stock well, which is located approximately 7600 feet north of the DNCS tract (Nicholson and Clebsch, 1961). Based upon water levels reported by Geohydrology

TABLE 1
Records of Wells in the Vicinity of the DNCS Site
Proposal for Vadose Zone Monitoring - DNCS Properties, LLC Site

Water Flood Assoc Inc.#2 Mai 2-127-2 Water Flood Assoc Inc.#2 Mai 2-127-2 Maijamar Repressuring Ag. #5 Maijamar Repressuring Ag. #6			D.dddd	D.dddd D.dddd							_	W82	WBZ the	thickness top			Yield	
Water Flood Assoc Inc. #2 Mai 2-127-2 Maijamar Repressuring Ag. #5 Maijamar Repressuring Ag. #6	1, 03980	17,32,1,22233			flood	4251	270	200	F	. 0961/9/8	To/Qaf	210	765	265	398			OSE Well Record
Maljamar Repressuring Ag. #5 Maljamar Repressuring Ag. #6	L 03980-s	17.32.1,42213			SRO	4242	Н	Н	4063 9	7	Н	205	Н	76 25	3992			OSE Well Record
Maijamar Repressuring Ag. #6	1.04019	17.32.2,43424			SROO	4195	182	126 est		Н	To/Qal	Ц	180	180	Ц			OSE Well Record
	1.04020	17,32,1,43343			SROO	4195	Н	100 est		\dashv	-	4	195	195	4000		2	OSE Well Record
Maljamar Repressuring Ag. #7	1.04021	17.32.2.44335			SROO	4203	1	160 est		+	4	4	185	133	4		2	OSE Weil Record
Mescalero Ridge Water Coop	L 04021-s	17,32,3,23422			S	4282	280	180 est	+	1/21/2002	To/Qa	200	260	7	257 4025		1	OSE Well Record
Chevron: Maljamar Grayburg Unit #12		17.32.3.4323334			8	Т	sing to 138	casing to 1384, redbeds to 990	960	1	1	+	+		413		1	OCD Record
Chevron: Maljamar Grayburg Unit #14		17.32.3,44300			8	Т	SING TO 127	casing to 12/5, redbeds to 990	+	+	+	1	+	Ť	1157 2507	-	1	OSE Wall Becord
8E Pashall	1.04038	17.32.1.32343			mop/mos	577	2 3		1	+	+	4	577	7 7	100		ļ	OSE Well Becord
Larry Wooton	No permit no	17.32.10.122			eg.	98	951	7	+	+	le/O/al	757	451	7	7 3006		1	OSE Well Record
George Kenemore	RA 8855	17.32.10.11421			mon	4153	2		1	+	1	4		t	1		٤	Oce Well Becord
Maijamar Coop Repressuring Ag.	1 00051-2	17.32.11.23142			4	4142	8	¥.		9/10/194/	10/03	¥.	¥.	Ť			3	OSE Well Record
Conoco Pilips	No permit no	17.32.21.300	-1		ᆡ	.†	125	φ	-	+	To/Qa	4		1	ઍ.	-	\downarrow	OSE Well Record
Conoco Oil MCA Battery 4 #189		17.32.26.41000	6	103.735041	930	3965 10	ŝ	I	+	+	ž	1	850	-	- 1.		1	OCD Record 5/11/78
Flo CO2 Inc	RA 10175	17.32.28.12	32.81102	103.773641	mop	┑	158	87 est	3912	2/4/2002	To/Qa	2	124	e -	핡	1	1	OSE Well Record
Conoco Oil MCA Battery 4 #109		17.32.29.11000			900	7	casing to 873	1	-		1	+	+	2	4		1	OCD Record 5/11/78
Contoco Oil MCA Battery 4 #154		17.32.29.32000			000	7	casing to 860					-	1	105	3879			OCD Record
Conoco Oil MCA Battery 4 #170		17.32.29.32000			900	٦	casing to 990		+		1			55	4			OCD Record
Conoco Oil MCA Battery 4 #214		17.32.29.33000	П		ggo	4091 car	casing to 1050		-		1	4	1	214	4			OCD Record 5/11/78
Conoco Oil MCA Battery 4#163		17.32.30.13000	32.807566	103.812556	000	П	sing to 870,	casing to 870, redbeds to 675	575		1	4	580	S	3845		\downarrow	OCD Record 5/11/78
						E	anyhdrite 675-810	5-810	+		ž	4	820	+	-		-	Rustler FM?
Conece Oil MCA Battery 1#218		17,32,30,33000			930	7	sing to 101	casing to 1018, redbeds to 590	290		1	245	230	S	4		1	OCD Record
Continental Oil Pearsail BX #2		17.32.34.241111			000	3952 Ca	sing to 351.	casing to 3515, redbeds to 792	7	-1	-1	4	-	+	64 3888			OCD Record
Warton Drilling Co	1.03750	17.33.1.140			OWD	4150	180	150	-			4	+	8	4			OSE Well Record
Denver Drilling Company	1.03782	17.33.2.444	П		OWD	4155	183	+	-	+	To/Qal	4	183	31	4	-	-	OSE Weil Record
Yates Petroleum	1,00010,212	17.33.2,44423	32.857521	103.626451	OWFR	4155	273	168	3987	4	+	4	4	05 268	8 3887		22	OSE Well Record
Carper Co: Daya Operating State B No. 2	1.04935	17.33.2.120			OWD	4167	204	162		-	4	4	4	1	4			OSE Well Record
Lomax Driffing Co	1 03012	17.33.3.140			lio	4182	210	155			To/Qal	_	-	55 198	4			OSE Well Record
Conoco #2 Caprock 2-174-25	1.03528-5-3	17.33.3,1443			OWD	4183	271	155	1	Н	To/Qal	4	-	1	4		4	OSE Well Record
Maljamar Coop #1 Maljamar 2-137-1	1.03528	17.33.4.44322			OWD	4179	265	158	1	12/11/1957	To/Qal	4	225	1	4			OSE Well Record
Yucca Water Co	L03598-x	17.33.5.22220			S.	4198	272	160	1		To/Qal	4	260		4		1	OSE Well Record
Yucca Water Co	1 03598	17.33.6.11110			SRO	4243	287	210		┪	To/Qal	330	280	77 280	3363			OSE Well Record
RE Paschall	1.04524	17.33.6.440			mop	4227	100	8		Ⅎ	To/Qa1	+	,	1	4			OSE Well Record
Dual Drilling Co	1.04122	17.33.7.32322			OWD	4229	249	214		⇥	To/Qa	214	249	1	4	_		OSE Well Record
Kewanee Oil Co	1.02771	17.33.7.4000			PS	4217	227	182		-	To/Qal	164	215	45 222	3952	-		OSE Well Record
Thunderbird Drilling Co	1 03749	17.33.9.342113			OWD	4195	230	160		_	10/03	15 15 15	230	7	4	-	\downarrow	OSE Well Record
Continental Oil Company	L 03528-5-2	17.33.9.331432			SRO	4200	262	180		1	To/Qal	86	-	1	4			OSE Well Record
Potash Company of America: PCA No. 8	1.01880-5-3	17,33,12,14110			Min Dev	4148	268	155		\dashv	To/Qal	159	+	113	258 3890		1	OSE Well Record
Potash Company of America	L 01880-1884 comb	17.33.12.33444			Min Dev	4135	259	115		-	To/Oai	115	+	1	4		4	OSE Well Record
Donnelly Drilling Co	L 04333	17.33,13,110			OWD	4136	217	165	+	-1	To/Qal	165	202	†	4	\downarrow	1	OSE Well Record
Potash Company of America	L 01880-5-2	17.33.13,31413			Min Dev	4124	235	151		+	To/Qal	154	230	84 230	3894			OSE Well Record
Potash Company of America	1.01880	17.33.13.343			Min Dev	4129	245	,		7	To/Qal	-	+	7	4			OSE Well Record (clean-out)
Potash Company of America	1.01882	17.33.13.43444			Min Dev	4128	245	144		+	To/Qal	795	822	101 228	3300		-	OSE Well Record
Potash Company of America	1.01882	17.33.13,434			Min Dev	4128	245	+		+	_	4	+	7	4		1	USE Well Record (Workover)
Potash Company of America	1.01883	17.33.13.44444			Min Dev	4123	529	147	1	+	To/Qal	PZ-	687	112 241	3887		1	OSE Well Record
Potash Company of America	1.01883	17.33.13.444			Min Dev	1		+	+	+		-	1	†	+		1	OSE Well Record (Workover)
Midland Drilling Co	L 03622	17.33.17.12444	32.838584	103.685601	OWO	4207	526	+	4027	+	(c)/o	2 5	305	†	+		\downarrow	USE Well Record
Kewanee Oil Co	1.02770	17.33.18.24111			2	4215	7	179	1	╅	10/03	169		†	213 4002		1	OSE Well Record
Kewanee Off Co	L 02773	17,33,18,322			2	4778	414	**************************************	ſ	+	300	R E		t	+		-	Oct Well Become
Kewanee OH Co	1.02773	17.33.18.322			S	4225	220	707	f	+		3 5	517		4		+	Oct Well necota
Henry Black Drilling Co	103726	17.33.18.22113			owo	4216	208	188	1	+	10/01	2 2	à	t	7		1	OSE Well Record
Warren-Bradshaw Exploration	1.02785	17.33,20,220			QMO	4171	220	+	+	+	10/01	3	252	3 ,	4		+	OFF WEIL REGITS
Phillips Petroleum Co	L 03133	17.33.23.31320			OWO	4143	230	+	+	+	10/01	82	198	†	1		+	OSE Well Record
Phillips Petroleum Co	L 03133	17.33.23.310	32.81832	103.6395	owo .	4143	230	P	4073	9/3/1958	10/01	87	158		2965		-	OSE Well Record (Workover)
Southwest Potash Co	1.01695	17.33.25.24444			Min Dev	40gs	+		1	+	20/0	1) or	†	1	-	\downarrow	Oce Well become
Zapata Petroleum Co	1,000713	17.33.28.143	32 011045	100 601101	Owo Par	4180	246	A SE	3084	+	10/02	i ja	328	8	244 3944		-	OSE Well Record
El Paso Natural Gas Co	1. DOZ-26-2 MISC	11.33.43.44441	32.011343		100		t	+	✝	3/14/1961		-	-	t	L	_	L	GAI BLM 1978
					1	*****	1	+	2002 57	+	To/Ost		+	\dagger	+	-	-	GAI BI M 1978

TABLE 1
Records of Wells in the Vicinity of the DNCS Site
Proposal for Vadose Zone Monitoring - DNCS Properties, LLC Site

Conoco MCA Unit Battery 4#133	OSE Permit Number	Location PLS	Location Lat Locati	Location Long	- -	LS Elev	_ _	WL Elev.	rv. Date	WBZ	Тор	Bottom	WBZ		Tre elev	Tşr	Driffer	Comments or source
Conoco MCA Unit Battery 4 #133			D.dddd	D.dddd			-	_		_	WBZ	WBZ	thkkness	top	-		Ylek	
		17.33.30.11000	32.801966	103.709129	900	4033 casi	ng to 3913,	redbeds to 51	casing to 3913, redbeds to 515, anhydrite 515-533	-533				28	4005		Ĭ	OCD Record 5/11/78
Conoco MCA Unit Battery 4 #134		17.33.30.12000			goo		ng to 1185,	casing to 1185, redbeds to 1145	2					45	4012		Ŭ	OCD Record 5/11/78
Conoco MCA Unit Battery 4 #135		17.33.30.14000			000		casing to 20							85	3977		J	OCD Record 5/11/78
Conoco MCA Unit Battery 4 #197		17.33,30,31111	32.80457	103,710241	ggo	4037 casi	ng to 3963,	redbeds to 79.	casing to 3963, redbeds to 791, sandstone 628-650	3-650				96	3941		J	OCD Record 5/11/78
Walter Williams stock well		17.33.30.124	۰	103.703623	-	Г	-	70 3975	5 7/29/1954	4							-	Nicholson & Clebsch
		17,33,30,12432	Г		-	4053	9	69.14	2/16/1971	1,							ÿ	GAI BLM 1978
Cities Svc SMGSA Unit Tract 1#2		17.33.30.42000	32.803774 103.69	103.696154	ggo	4055 casi	casing to 1199							145	3910		J	OCD Record 5/11/78
DNCS Properties LLC Boring 5		17.33.31.	32.78815	103.69491	-	_		dry					0	: 59	3914.03		J	DNCS Site Boring Log
DNCS Properties LLC Boring 6			32d46m54.1s 103d4	103d42m27.1s		3939.5	75	dry					0	1.9	3872.5		Ĭ	DNCS Site Boring Log
Open Cased Hole		17.33,33,4224				4082	1	130.96 3951.04	04 2/16/1971	To/Qal				Н			Ŭ	GA! BLM 1978
Dillard & Walterader Drilling Co	L 04363	17.33.35.32142			OWD	4122	L	160	1/5/1960	D To/Qal	170	200	99	222	3900		J	OSE Well Record
Gulf Oil Corp	1 05096	17.33,35,433			OWD	4124	233	150	4/6/1968	8 To/Qai	Н	230	83	230	3894		Ĭ	OSE Well Record
Gulfoil Core	1 05096	17.33,35,43332			OWD	4120	233	150	3/15/1963	3 To/Qal	150	230	83	230	3890		Ĭ	OSE Well Record
86 Frizzeil	CP 566	18,32,4,144			mop	3864	133	65	6/3/1977	7 To/Qal	-	133	89	129	3735		J	OSE Well Record
Virgit Linam	CP 672	18.32.7.44233	32.756902	103.79895	stock	3759		430 3329	9 8/7/1992	2 Trc	460	489	58	100	3659		Ĭ	OSE Well Record
Virgit Linem	CP 672	18.32.7.44144			stock	3767		460 3307	7 1/29/1985	IS Trc	498	510		647			12	OSE Weil Record
Billy Williams	Not permitted	18.32.16.223433	35.752	103.7652	dxa	3794	L	dry		1	,	-	0	94	3700		J	OSE Well Record
Uncased open hole		18.32.16.22433				3973	100	84.18 3888.82		S To/Qai					4		Ĭ	GAI BLM 1978
Domestic Well		18.32.20.13311			mob	3470	H	179.35 3290.65	65 2/23/1971	71 Trc							Ĭ	GAI BLM 1978
Oil test		18.32.22.32322				3763	4	434.41 3328.59	Ц								Ť	GAI BLM 1978
TXO Production	CP 677	18,32,26,11143	32.724776	103,744505	awa	Н	Н	dry	5/9/1985		Sandstone 500-605		٥	116	3652		Ĭ	OSE Well Record
Duval Corp.	0 13 002	18.32.32.111244			dxe		2060		6/22/1977	_	Trc @ 274	2 WBZ's Trc @ 274, Tsr @ 575			3701	575	J	OSE Well Record
Windmill		18.32.34.22241			stock	3721	1:	117,46 3603.54	Ц	Н							Ĭ	GAI BLM 1978
Open Cased Hole		18,33,3,34133				4015		60.1 3954.9	Н	6 To/Qal							Ĭ	GAI BLM 1978
OXY USA Inc.	CP 758	18.33.4.34233	32.771967	103.669204	dxe	3989	L	dıy	5/10/1991	- 16	;	1		99	3924		Ĭ	OSE Welf Record
DNCS Properties LLC Boring 3			32.77692	103.70411	Н	3940.23	Н	dry	2/6/2013	3				-	3895.23		Ĭ	DNCS Site Boring Log
DNCS Properties LLC Boring 4			32.777	103.69465	Н	3968.20	Н	dry	2/9/2013	3				-	3918.2		٦	DNCS Site Boring Log
BJ Wooley	CP 546	18.33.9.42241	32.76111	103.660559	Com	3978	Н	70 3908	8 6/3/1975	5 To/Qai	Н	85	20	85	3893		Ĭ	OSE Weil Record
	1 6131	18.33.8.213	32.766525	103.68429	-	_		100		$\overline{}$	130	193	8			1	٦	OSE Waters POD summary
неусо	CP 702	18.33.11.314112			OWD	4054	100		10/21/1986	_	4	82	100	82	3972		ş	OSE Well Record
Неусо	CP 701	18.33.11.314121			OWD	3997	100		10/20/1986	_	4	8	9	84	3913		٦	OSE Well Record
BJ Wooley	1 8288	18.33,12.33334			Com	3997		60	5/11/1982	32 To/Qal	-	8	52		3997		Ĭ	OSE Well Record
rates Drilling Co	1 2878	18.33,12,440			OWD	4089	Н	150	5/30/1955	Н	150	205	55	200	3889		Ĭ	OSE Well Record
Scharbauer Cattle Co	1.6347	18.33.12.440			stock		170	130	7/12/1968	Н	_		9					OSE Well Record (clean-out)
BJ Wooley	CP 623	18.33.13.11112			Com	3989	82	60	5/10/1982	32 To/Qal	70	8	22	80	3909		ş	OSE Well Record
Sun Oil	CP 689	18.33.13.12122			OWD	4003	100		12/7/1985	-	Ц	8	100	56	3908		_	OSE Well Record
KMR Inc	CP 768 exp	18.33.13.21142			ехр	4018	Н	Н	Н	2 To/Qal	8	110	45	110	3908		2	OSE Well Record
Unnamed well (Nicholson)		18.33.14.111	32,753778	103.640397	stock	3962	40	35.8 3929.2	2 6/3/1954	_			4.2	40	3925			Nicholson and Clebsch
Unnamed well (Nicholson)		18.33.19.142	32.735618	103,703433	stock	3820	^	Н	Ц	1								Nicholson and Clebsch
Unnamed well (Nicholson)		18.33.34.133	32,704955	103.658439		3760	Н	177.4 3582.6	-		_						Ī	Nicholson and Clebsch
W.E. Elison	1 3454	18.33.30.220			dom	3791	100	35 3756	6 3/30/1957	57 To/Qal	1 70	97	65	97	3694		Ť	OSE Well Record

Associates (1978), an oil test well located approximately 4400 feet northeast of the DNCS site and open cased holes located 10,200 feet and 12,400 feet east of the DNCS site apparently found thin saturations in the alluvium. Based upon information from New Mexico Office of the State Engineer (OSE) Well Records (Well RA-10175 and Well L-3454), a well located approximately four miles west of the DNCS site and another well located 3.5 miles south of the DNCS site produce limited quantities of water from the alluvium.

Based upon notes taken from OCD records and posted on NMOSE Well Records, thirteen oil wells in the vicinity of the DNCS site penetrated water-bearing zones, or significant sandstones in the Triassic redbeds. Locations of these wells are shown on **Figure 2** and details of the zone descriptions, as well as summary information are included on the well logs provided in **Attachment A-3** and in **Table 1**. One of these wells (Conoco, B-4-197), located approximately 5800 feet north of the DNCS site, penetrated sandstone between 628 feet and 650 feet below land surface; another well (B-4-189), located about 9000 feet northwest of the DNCS site penetrated a "water sand" between 710 feet and 810 feet below land surface.

Several wells to the south and "downgradient" of the DNCS site appear to produce from water-bearing zones in the Triassic bedrock unit. One of these wells (NMOSE Well Record, CP-677, Attachment A-3), located approximately 5.7 miles southwest of the DNCS site, is completed in a sandstone that is between 498 and 510 feet below grade; and the water level in this well was measured at 460 feet below grade, indicating artesian conditions. Another well drilled under the same permit a short distance away found similar conditions. Geohydrology Associates, Inc., (1978, Appendix A-2) reported a water level of 434.41 feet below land surface in an oil test well located approximately four miles southwest of the DNCS site. No water-bearing zone interval was identified in this record; however another well located approximately one mile southeast of this well penetrated several sandstones below a depth of 500 feet. The projected geometry of sandstones and associated potentiometric surface of these wells is depicted in the hydrogeologic cross section in Figure 3.

3.0 PROPOSED VADOSE ZONE MONITORING PROGRAM

Due to the anticipated great depth to the shallowest water-bearing units, as well as high impedance to vertical water flow posed by the Triassic redbeds at the DNCS site, vadose zone monitoring is proposed as the preferred alternative for the site. The proposed vadose zone monitoring wells would be positioned such that two downgradient wells would be located downslope on the mapped upper redbed surface to the west of the facility, and one upgradient well would be placed upslope on the redbed surface near the southeast corner of the facility. Equally important is the planned installation of a double HDPE-lined leak detection system that underlies the entire waste disposal footprint.

3.1 Proposed Monitoring Well Locations

Locations of the proposed facility, as well as the site geotechnical borings and interpreted terrain on the top of the redbed surface are shown on the map provided as **Figure 4.** This diagram projects the isopleths on the upper redbed surface prepared by Nicholson and Clebsch (1961), as well as interpolated isopleths that comport with new redbed surface elevation data obtained from site-specific geotechnical borings on the DNCS site. It should be noted that no adjustment of the Nicholson and Clebsch isopleths was necessary to honor the new data points, confirming both datasets. The resulting structure map presents a fairly detailed depiction of the terrain on the redbed surface at the proposed facility, and a confidence level that the proposed vadose zone monitoring wells are positioned directly downslope from the proposed waste disposal area in the zone most appropriate for detection of a potential release.

3.2 Proposed Well Drilling and Completion

Proposed vadose zone monitoring wells are to be installed using hollow-stem auger drilling methods; and no fluids would be introduced into the borings during drilling. Undisturbed, depth-referenced samples would be collected on five-foot intervals using split spoon sampling equipment. Drive blow counts would be logged during each sampling event and logged to allow precise determination of the upper redbed surface in each boring. A qualified hydrogeologist would be present on location during drilling, and would prepare

detailed descriptions of the lithology, texture, sorting, rounding, color, plasticity, degree of lithification and moisture content of each sample and stratigraphic unit that is penetrated.

Each boring would be advanced approximately two feet into indurated Triassic redbeds. Although split spoon sampling offers ample opportunity to identify saturated sediments with a high degree of confidence, each boring will be further evaluated for the presence of free water. Upon reaching total depth, the rig would be placed on standby for at least two hours, during which time soundings will be made inside the augers to check the potential of accumulating fluid.

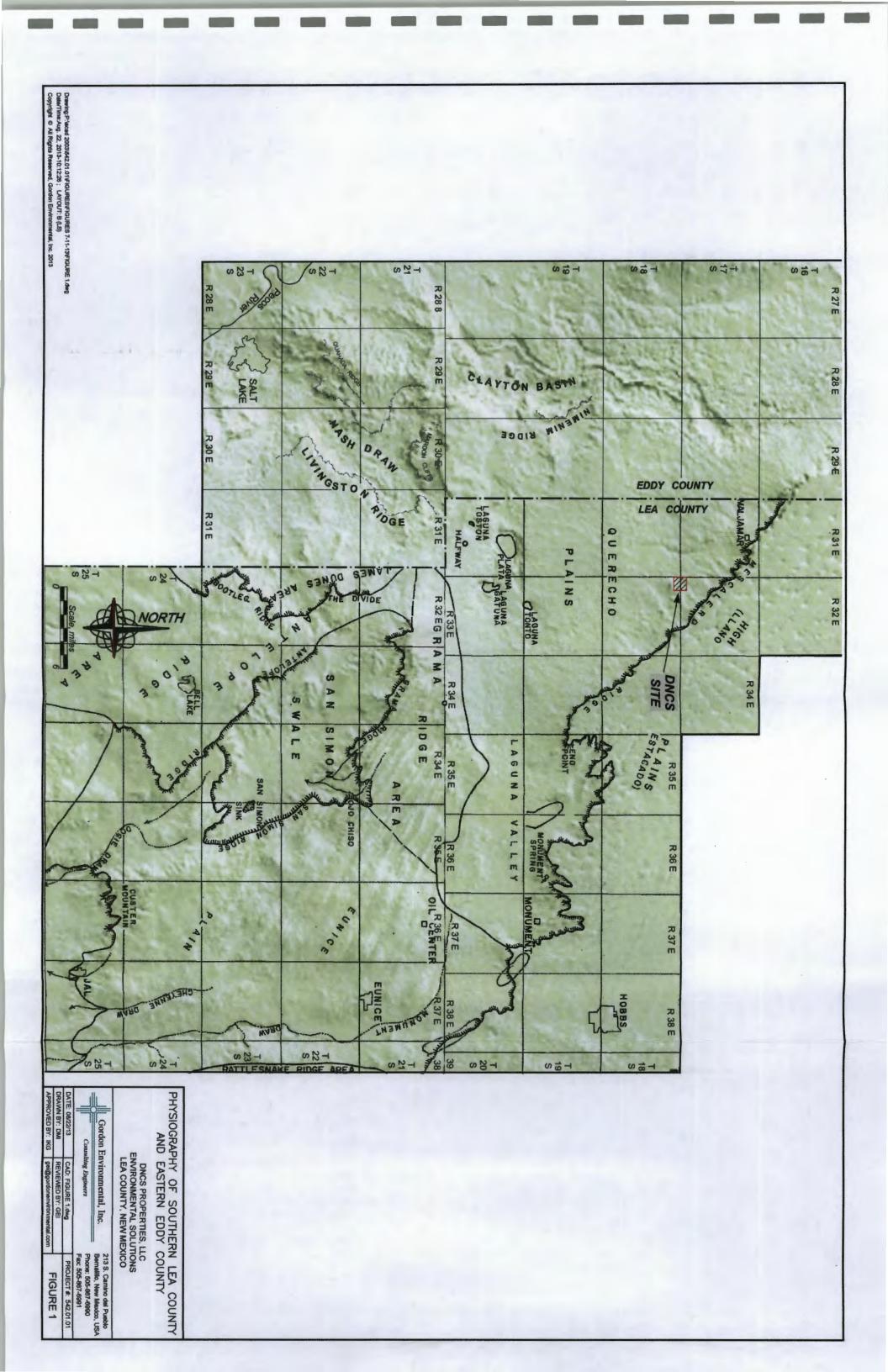
Vadoze zone monitoring wells will be completed in accordance with specifications set forth on the well detail sheet provided as **Figure 5**. Each well will be completed using 2-inch schedule 30 flush joint casing. Each well will be completed with a 10-foot length of 0.010-inch slotted well screen, positioned with the lowermost end extending two feet below the detected upper redbed surface and the upper end extending approximately 8 feet into the overlying alluvium. The well annulus will be backfilled with a 10/20 grade silica sand pack extending two feet above the screen, and an annular seal consisting of bentonite grout or equivalent extending to land surface. Each well would be equipped with a radially sloped concrete surface pad with locking steel shroud extending approximately 3 feet above grade and marked.

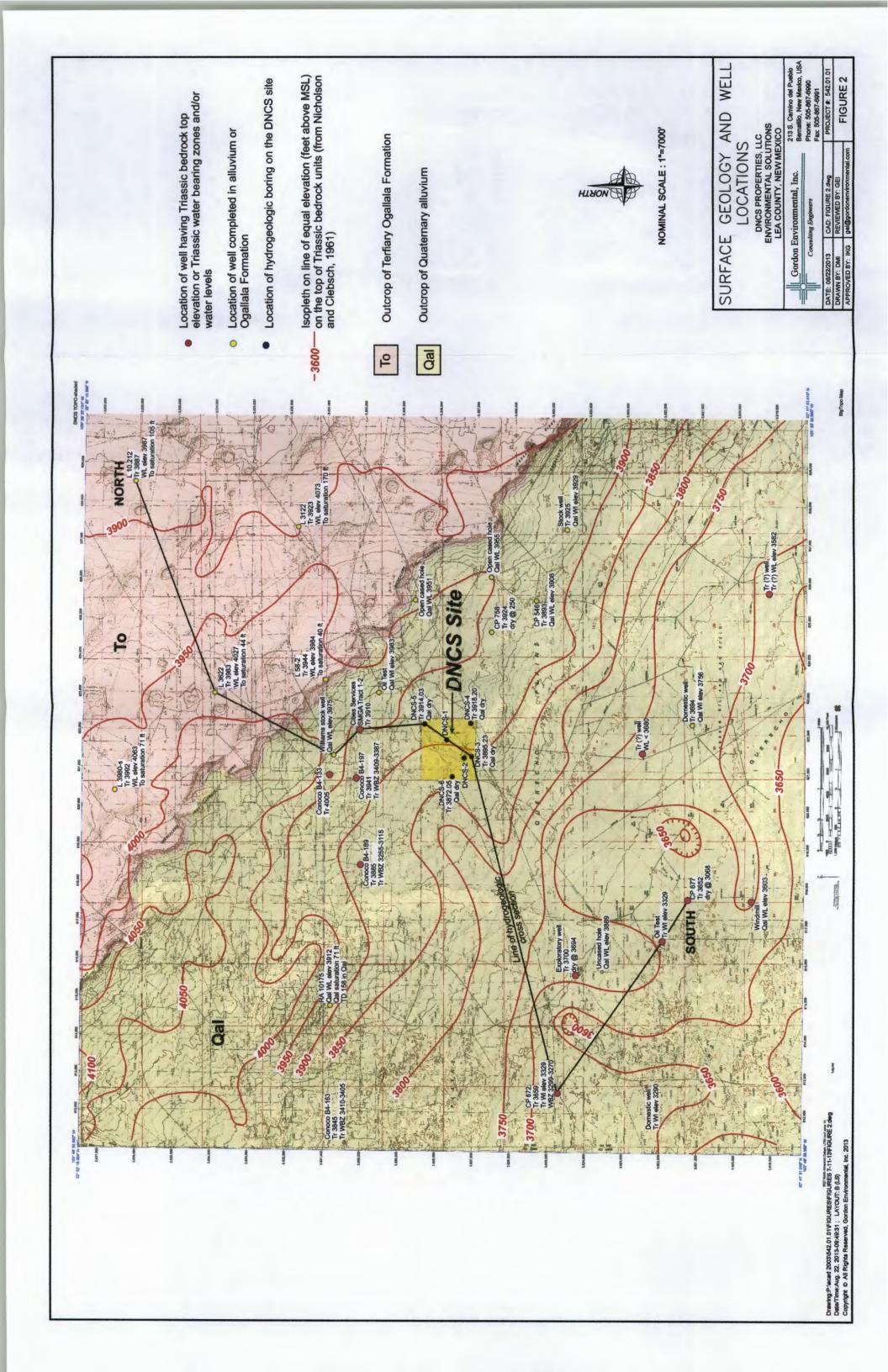
3.3 Proposed Monitoring Program

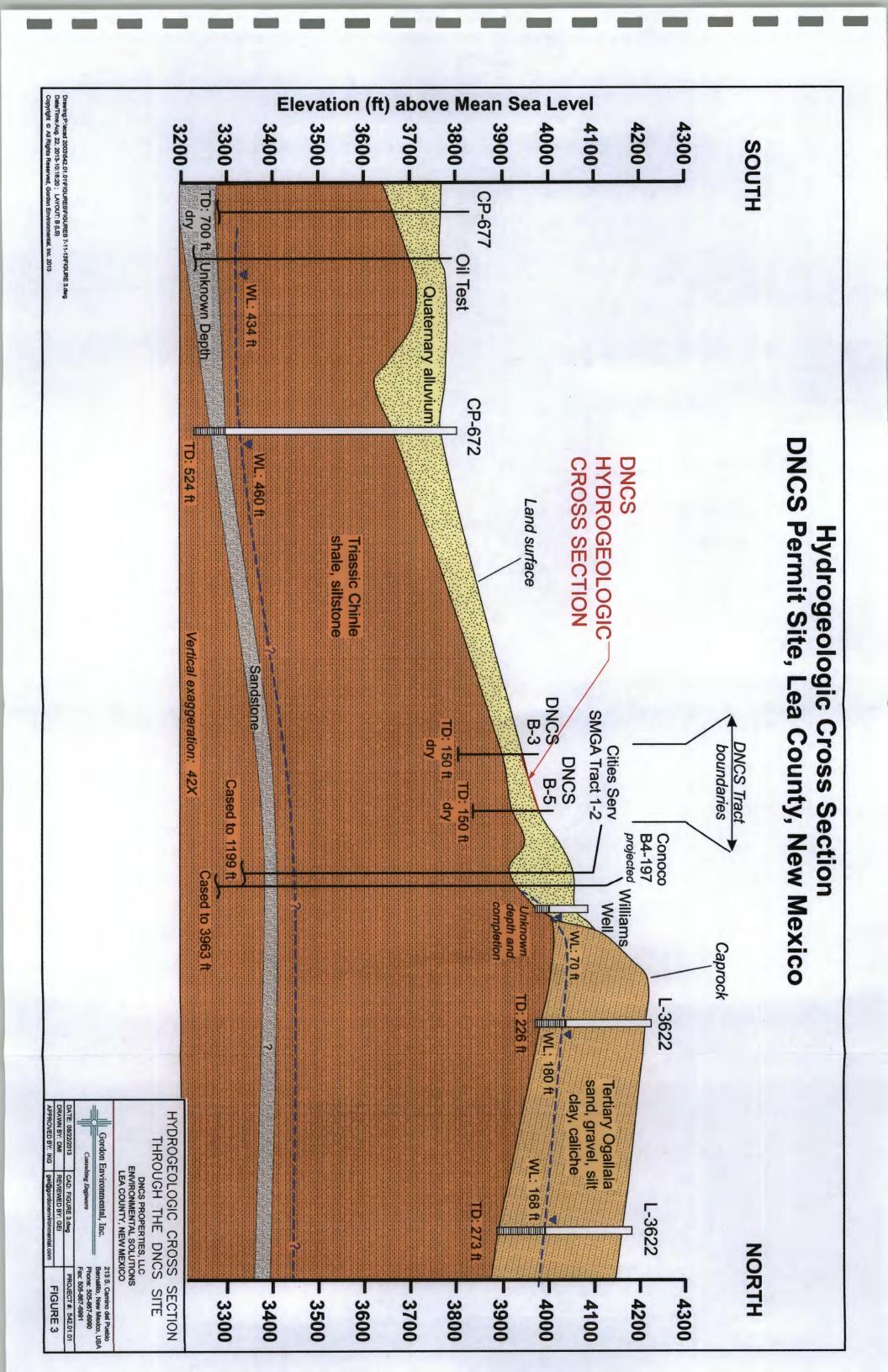
The proposed vadose zone monitoring program would initially include monthly inspection of each well for the presence of fluid as with leak detection sumps in accordance with provisions set forth in 19.15.36.13.L.(1) NMAC. Results of fluid detection measurements would be submitted with related leachate monitoring results in normal facility operations reporting to the Division. If fluids are noted in any of the monitoring wells or leak detection system, fluid will be sampled and tested in 19.15.30.9 and 20.6.2.7 NMAC and a reporting of findings will be transmitted to the Division in accordance with requirements for groundwater monitoring and reporting set forth in 19.15.14.B. The continued lack of fluids in the leak detection system and vadose monitoring wells may be the subject of specific approvals by OCD for a reduced monitoring frequency and/or analyte list.

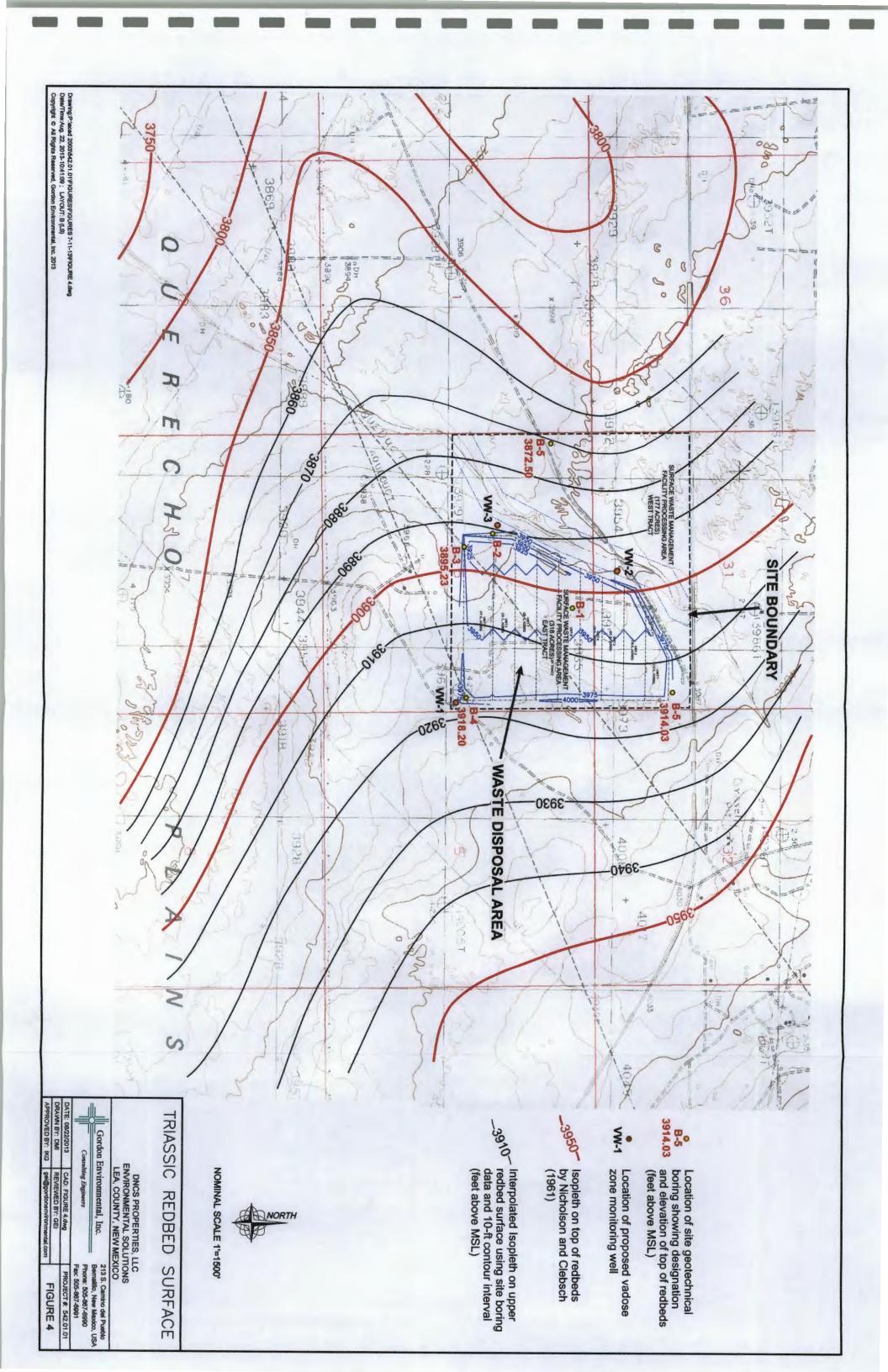
4.0 LIST OF REFERENCES

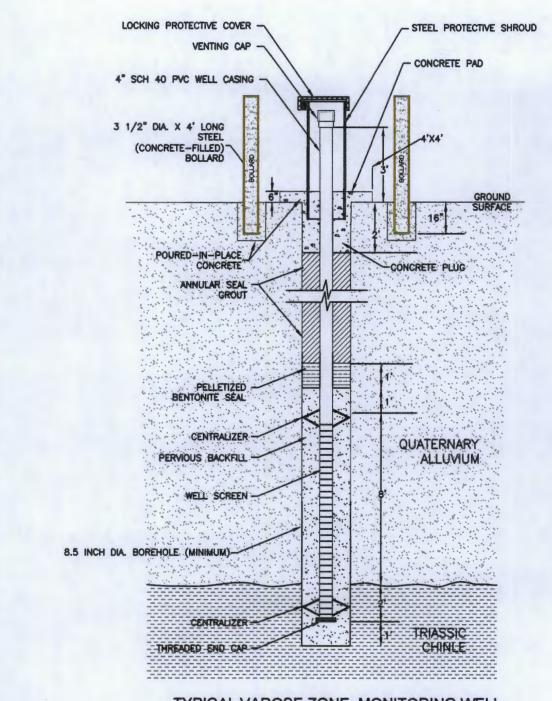
- Geohydrology Associates, Inc., 1978, Collection of hydrologic data, eastside Roswell Range EIS area: Open-File Consultant Report to Bureau of Land Management, Denver, Colorado, Contract No. YA-512-CT-7-217, Table 4.
- Kelly, T.E., Geohydrology Associates, Inc., 1984, Hydrologic assessment of the Salt Lakes area, western Lea County, New Mexico, Consultant report to Pollution Control, Inc., Lovington, New Mexico, Figure 1.
- Nicholson, A., and Clebsch, A., 1961, Geology and ground-water conditions in southern Lea County, New Mexico: New Mexico Bureau of Mines and Mineral Resources Groundwater Report 6.
- Office of the New Mexico State Engineer, 2013, Electronic image well log files for Lea County, http://www.ose.state.nm.us/water_info_rights_dist2_LeaCountyWellLogs.html











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 IS OSE AND OCD SUBMITTALS.

Drawing:P:\acad 2003\542.01.01\FiGURES\FIGURES 7-11-13\FIGURE 5.dwg
Date/Time:Aug. 22, 2013-10:46:47
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PROPOSED COMPLETION OF VADOSE ZONE MONITORING WELLS

DNCS PROPERTIES, LLC ENVIRONMENTAL SOLUTIONS LEA COUNTY, NEW MEXICO

Gordon Environmental, Inc.

213 S. Camino del Pueblo Bernalillo, New Mexico, USA Phone: 505-887-8990 Fax: 505-887-8991

DATE: 08/13/13 CAD: FIGURE 5.dwg PROJECT #: 112.02.01

DRAWN BY: DMI REVIEWED BY: MJC

APPROVED BY: IKG gel@gordonenvironmental.com FIGURE 5

Proposal for Vadose Zone Monitoring DNCS Properties, LLC Site Lea County, New Mexico

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

- Control of the Cont			nmental, Inc.	Log of Borehole No.: B3	Total Depth_		PG-No.: 542.01.0
-		Consulting En	gineers	Client: DNCS PROPERTIE			No.: 542.01.0
NONE	ter-Level E_Ft. While v ground st	Data le Drilling	Location COORDS's and Elevation (NAVD88) N: 32.77692 E: -103.70411	Date Started: 02-06-2013 Date Comp: 02-08-2013 Location: DNCS SITE, LEA COUNTY	Borehole Information Drilling Co.: PRECISION SA Rig Type: CME 88	MPLING G	ET Rep.:
	E Ft. at con		Elevation: 3940.23	SE/4, N/2, SEC 6, T18S, R33E, N.M.P.M.	Driller: JUAN BARRAZ	Sa Sa	ampling Meth.: SS/BR/CC/A
water le	evel data app	Samplin	COORD REF SYS WGS84	1100, 1000, 1000, 1000	Helper: INO V.	Rig	
epth BGS)	Graphic Lithology	Method		Soil/Lithology Description	on	Blow Counts/ft	Notes:
0'	202015	BRCC		AND SILT; BROWN (WINDBLOWN			UNDONFORMERY AS BASE OF BUILD SAME
			1'-5', SAND; FINE GRADED; POORLY TO	AND CALICHE LIGHT BROWN () MODERATELY INDURATED)	(7.5YR 6/4). (POORLY		WHAT CLICATED ROW ?
5'			5'-10', SAND; FIN	E, WITH CALICHE AND TRACE O	GRAVEL TO 1"; PINK	13	
0,			(7.5YR 7/2), (POOF	RLY GRADED; POORLY TO MODE	ERATELY INDURATED)	33	
,							SPARSE GOND, TO 27; AGENDAGE CHAPTE REQUIRES
5'-			****			31	
	20		GRAVEL TO 1"; PINI	NE, WITH SILT, CALICHE FRAGM ((5YR 8/3), (POORLY GRADEI	ENTS, AND ROUNDED D; POORLY TO		
92			MODERATELY INDURA	TED/CALICHEFIED)		23.	
~~							
5'						45	
						6	
9.			25'-45', SAND; FI	NE, WITH SILT, CALICHE FRAGM GHT REDDISH BROWN (5YR 6/	ENTS, AND ROUNDED 4). (POORLY GRADED:	29	INCE CHARL TO AUT SA
5'				TELY INDURATED/CALICHEFIED)		.20	
			make to				TRICK GRAND, TO 3.5" SM.
):-						32	
			UNCONFORMITY				NUTRICAL IN CONTEST SAME AND ORNAL OF COMMENT WITH LEADING THE AND ELECTRICAL SAME AND AND AND AND AND AND ELECTRICAL SAME AND
5°						.58	
) *	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -			IE AND SILTSTONE; WITH CALIC D 2"; REDDISH BROWN (2.5YR		100+	Union alternative Control of the Con
			ORADED, MODERATEL	. HUUNALEU)			
5			550 500			100+	
		**************************************					HOL DESIGN FOR WIND AFTER AT
)'-			ROUNDED GRAVEL TO	ie and siltstone; with calic o 2"; reddish brown (2.5yr h layers and spots (poorl)	4/4), AND VARIEGATED	95	HOLE CHESTED FIR WITT AFTER ST CHESTER (LEE HELTER, HO WITT DOWN-ROLE
5'-			INDURATED)			84+	
).			m 9				Marine Marine Company of the Company
			70'-85', CLAYSTON VARIEGATED BROWN MODERATELY INDURA	E AND SILTSTONE; LIGHT RED TO GREENISH LAYERS AND SP TED)	(2.5YR 6/8), AND OTS (POORLY GRADED;	93+	OF BIG. AD INSE COMPLEXE CO
5' E	= BELOW	GROUND S	SURFACE SS = SPLIT S IGER OGS183 DNCS.dwg	POON ARC = AR ROTARY C	CUTTINGS AC = AUGE		S CC = CONTINUOUS

		Constituting En	gineerx	Client: DNCS PROPERTIES	, LLC		BG-No.: 542.01.01
	11.		Location COORDS's and		Borehole Information	1	ϕ_{ℓ}
	er Level D		Elevation (NAVD88)	Date Started: 02-06-2013	Drilling Co.: PRECISION SA	MPLING G	EI-Rep.: MLH
	Ft. While ground sur		N: 32.77692 E: -103.70411	Location: DNCS SITE, LEA COUNTY	Rig Type: CME 85		Drill Meth.: HSA, AIR ROTARY
below	Ft. at con ground sur	rface)	Elevation: 3840.23 COORD REF SYS WGS84	SE/4, N/2, SEC 8, T18S, R33E, N.M.P.M.	Driller: JUAN BARRAZ Helper: TINO V.	S	ampling Meth.: SS/BR/CC/ARC
epth	Graphic Lithology	Samplin	g	Soil/Lithology Description		Rig Blow	Notes:
			70'-85', (CONTINUE	D) CLAYSTONE AND SILTSTONE; TED BROWN TO GREENISH LAYER	LIGHT RED (2.5YR	Counts/ft	SAMES ROSE SHEFTER BROOK BOOK-HOLE SAME DAMAGED BROOK ROSE SAMEL GROOKINGS. ORGINOLE CHESTED FOR THIRD AFTER BIT DRESSON, NO THERE.
80'			GODED; MODERATE	T INDORATED)		100±	NEW "NAME," RESPUED FOR \$8 SAFFLES
35'				E AND SILTSTONE; PALE RED (2 TO GREENISH LAYERS AND SPO		100+	
0'	1		MODERATELY INDURA				SOLE GO-OLGIE VIDLES AO PARIO
	20 1 (48) 1 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (47) 2 (100+	NO MORE SPUR-GROOM SHAPLING ONLY ANI-ROBARY GUTTERS FROM SO.25" TO 180"
5'		**************************************	90'-110', CLAYSTON	IE AND SILTSTONE; LIGHT RED (TO GREENISH LAYERS AND SPO	2.5YR 7/8), AND		
90'		**************************************	MODERATELY INDURA				
)5°	79	***************************************	oco				
10'			110'-115', CLAYSTO VARIEGATED BROWN MODERATELY INDURA	NE AND SILTSTONE; LIGHT RED TO GREENISH LAYERS AND SPO TED)	(2.5YR 7/6), AND ITS (POORLY GRADED;		
15"		moss control of	www.	ne and siltstone; reddish b	ROWN (2.5YR 5/4),		
20'		Superintender	AND VARIEGATED BR GRADED; MODERATEL	OWN TO GREENISH LAYERS AND Y INDURATED)	SPOTS (POORLY	2000 - 100 A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
25'		Manager Control				deposes on the second from the	
80,		Address Server					
5'		**************************************	"VARIEGATED BROWN	STONE AND SILTSTONE; RED (2 TO GREENISH LAYERS AND SPO	.5YR 4/8), AND ITS (POORLY GRADED;		
0,			MODERATELY INDURA	TED)		Announce Section Section	DRILLHOLE CHECKED FOR
5'		**************************************					WATER AFTER SITTING OVERNIGHT; NO WATER NO WATER SATURATION OF ANY MATERIAL ON AUGERS PRIOR TO PLUGGING HOLE.

Date/Time:May. 31, 2013-08:54:09; LAYOUT: A (P)(p2 of 2)

Drawing:P:\acad 2003\542,01.01\DRILL LOGS\B3 DNCS.dwg

=		Consulting L	onmental, Inc.	Client: DNCS PROPERTIES	, LLC		No.: 542.01.0
	Tr.		Location COORDS's and		Borehole Information		9,
	ter Level I		Elevation (NAVD88)	Date Started: 02-08-2013	Drilling Co.: PRECISION SA	MPLING G	EFRep.: MLH
	E_Ft. While w ground su		N: 32.77700° E: -103.69465°	Date Comp: 02-09-2013 Location: DNCS SITE, LEA COUNTY	Rig Type: CME 85	_ D	rill Meth.: HSA, AIR ROTAR
NON (belov	E Ft. at con	npletion	Elevation: 3968.2	CENTRAL SEC 6,	Driller: JUAN BARRAZ	S.	ampling Meth.: SS/BR/CC
	level data appr		COORD REF SYS WGS84	T18S, R33E, N.M.P.M.	Helper: TINO V.	Rig	
	Graphic	Metho		Sail/I ithalam Dassintian		Blow	
BGS)	Lithology	3 E S	A SAND FINE	Soil/Lithology Description AND SILT: BROWN (WINDBLOWN,		Counts/fl	Notes:
	2 C V			, RED (2.5YR 4/6), (POORLY G			CLICKING PROS 4 TO 40
5'			MODERATELY INDUR				
				ND SAND; FINE, WHITE (2.5YR	3/1), (POORLY	84+	
		*********	GRADED; MODERATE	Y INDURATED)		- 10 1111111111111111111111111111111111	
0'-			10'-15' CALICUE	AND SAND; FINE, PINKISH WHITE	(2 5VP 8/2)	82+	
				ODERATELY INDURATED)	. (2011 0/2),		**************************************
5'			4			***************************************	ND 88 SOUTH COLUMN
w. 24				and sand; fine, light reddish Ioderately Indurated)	BROWN (2.5YR 6/4).	70 Annual 1-14	***************************************
0,			V CONE. GIODES, I				
		*******		E, AND CALICHE, LIGHT REDDISH			
			(POORLY GRADED; P	COORLY TO MODERATELY INDURA	TED)	M. 2240 1000000 0000 0000	Section of the second of the s
5'			25'_30' CAND. FIN	E, AND CALICHE, LIGHT REDDISH	PPOWN (2 5VP 7/4)	35	**************************************
		200000-A 7850		COORLY TO MODERATELY INDURA		**************************************	
0'				Compared to the compared to th		39	\$ (20-000-0000-0000-0000-0000-0000-0000-0
				E, AND CALICHE, LIGHT REDDISH CORLY TO MODERATELY INDURA		•	3UE (123)
5				The state of the s		***************************************	######################################
				AND SAND; FINE, PINKISH WHITE	(2.5YR 8/2),	90	ACLIENT SOOT CASTS AND VOOS
0,		reactive was	(POORLY GRADED; M	IODERATELY INDURATED)		Washington on Color	- Carrier and the second of th
	0 .		30'-40'. CALICHE	AND SAND; FINE, AND GRAVEL 1	TO 1": PINK (2.5YR	84+	44.51
	ક			MODERATELY GRADED; MODERATE			1 194
5'	TO BE		30'-40', CALICHE.	SAND; FINE, AND GRAVEL TO 1	. PINKISH WHITE	93+	A commence see that the commence of the contract of the contra
	d »	10-10-100 AE 37	(2.5YR 8/2). (POOR	LY TO MODERATELY GRADED; ME	ODERATELY INDURATED)		· woman weeks to have the house the same
0.	ઢ	enternager. Perren	UNCONFORMITY			70	
		*******				***************************************	Address Maria Mari
5'-		2000 0000 0000		E AND SILTSTONE; WITH CALICH			
,			ROUNDED GRAVEL TO	0.5" AT TOP; DARK REDDISH TED BROWN-PURPLE AND GREET	BROWN (2.5YR 3/4)	70+	1985 - 1894 - 1895 - 1895 - 1895 - 1895 - 1895 - 1895 - 1895 - 1895 - 1895 - 1895 - 1895 - 1895 - 1895 - 1895
				ODERATELY INDURATED)			and a second of the second of
0'-			notes.			64+	
						w	
5'						90+	COMO TO AM-RODRY DRELING
, 1900 and				T AND OUTSTOLE TO THE	NIN (0 55 4 (4) WE	den transco	ROM (8" 10 LEG 100.
0.			SOME VARIEGATED B	e and siltstone; reddish bro Rown—purple and green lay			
		· · · · · / · · · · · · · · · · · · · ·		ODERATELY INDURATED)		w.mw.w.do: = = = = =	second a second
			-			* *** *** ***	
5' E			1	POON ARC = AIR ROTARY CU			

***************************************		Consulting En	nmental, Inc.	Client: DNCS PROPERTI	ES, LLC		PO- No.: 542.01.01
	-11		Location COORDS's and		Borehole Information		0,
	ter Level D		Elevation (NAVD88)	Date Started: 02-08-2013 02-09-2013	- Drilling Co.: PRECISION SAI	MPLING C	DEI Rep.:
(below	Ft. While v ground sur	rface)	N: 32.77700° E: -103.69465°	Location: DNCS SITE, LEA COUNTY	BIANI DADDAT		Drill Meth.: HSA, AIR ROTARY
(below	Ft. at con	npletion face)	Elevation: 3968.2	CENTRAL SEC 6,	Dillie.	s	Sampling Meth.: SS/BR/CC/A
water i	evel data appr	Samplin	COORD REF SYS WGS84	T18S, R33E, N.M.P.M.	Helper: TINO V.	Rig	
)epth	Graphic	Method		Soil/Lithology Descript	ion	Blow	
75°	Lithology	188	8	Sourcialology Descript	KAI	Counts/ft	Notes:
80'		Automotive control	SPARSE VARIEGATED	ie and siltstone; reddish i Brown—Purple and Green Ioderately Indurated)			
35'						***************************************	
)0°			SPARSE VARIEGATED	IE AND SILTSTONE; REDDISH I BROWN-PURPLE AND GREEN CORLY TO MODERATELY INDUI	LAYERS AND SPOTS,		
90'				ne and siltstone; red (2.5 -Purple and green layers Y indurated)		Total Society of the second	
95 '				one and siltstone; red (2. -Purple and green layers y indurated)			
102			WITH SPARSE VARIED	ONE AND SILTSTONE; REDDISH SATED BROWN-PURPLE AND (ADED; MODERATELY INDURATE	GREEN LAYERS AND		
15' 20'		******************	VARIEGATED BROWN-	ONE AND SILTSTONE; RED (2. PURPLE AND GREEN LAYERS MODERATELY INDURATED)			
25'-		**************************************	VARIEGATED BROWN-	ONE AND SILTSTONE; RED (2. -PURPLE AND GREEN LAYERS			
20.				one and siltstone; reddish			
55'		······································		OTED BROWN-PURPLE AND GRODERATELY INDURATED)	EEN LAYERS AND SPOTS,		
10,			WITH TRACE VARIEGA	ONE AND SILTSTONE; REDDISH TED BROWN-PURPLE AND GR OORLY TO MODERATELY INDUS	EEN LAYERS AND SPOTS,		
		**************************************				*** ***** ********	The second of th
15*-		Analysis and a	(2.5YR 6/4) WITH T	YSTONE AND SILTSTONE; LIGH RACE VARIEGATED BROWN—PU Y GRADED; MODERATELY INDU	RPLE AND GREEN LAYERS		
50.	The second secon	A. 1000000000000000000000000000000000000				n e e e e e e e e e e e e e e e e e e e	OCENHOL BULLICLE FOR WHEN AFTER BE GREENING, HE WITH CHESSES ALIER FULLER, NO STURMED STURMS, ON AUG

		Consulting Ex	ginear	Client: DNCS PROPERTIE	S, LLC		ROE No.: 542.01.0
	-11		Location COORDS's and		Borehole Information		V.
Wat	ter Level [Data	-Elevation (NAV-D88)	Date Started: 02-10-2013	Drilling Co.: PRECISION SA	MPLING G	El Rep.: MLH
	Ft. While		N: 32.78815° E: -103.69491°	Date Comp: 02-11-2013 Location: DNCS SITE, LEA COUNTY	Rig Type: CME 85	D	rill Meth.: HSA, AIR ROTA
NONE	E Ft. at cor	npletion	Elevation: 3979.03	EAST CENTRAL SEC 31,	Drifter: JUAN BARRAZ	A S	ampling Meth.: SS/BR/CC
	v ground su evel data appr		COORD REF SYS WGS84	T17S, R33E, N.M.P.M.	Helper: TINO V.		
		Samplin	g	· · · · · · · · · · · · · · · · · · ·	1 1	Rig	
pth BGS)	Graphic Lithology	Method		Soil/Lithology Description	on.	Blow Counts/ft	Notes:
0	STEEL STEEL	188	54	ND SILT: BROWN (POORLY TO		Counts/It	THE STATE OF
							365 LIBORDS
5'			3'-5', CALICHE AN	d sand; fine, white (5yr 8/ (Ted)	1), (POORLY GRADED,		SHOWLY CALCHONIO MAIN F TO
				ND SAND; FINE, PINKISH WHITE	(5YR 8/2), (POORLY	100+	
			GRADED; MODERATE				
9'-	TOWNS					44	
5.			10'-20', SAND, FINE	E, AND CALICHE; LIGHT REDDIS	H BROWN (2.5YR 7/4),		
2		8-1	(POORLY GRADED; N	IODERATELY INDURATED)		23	
		*******					A service of the second
o <u>.</u>						42	1960E Made Streets SPOR TO James
	ã		20'-25', CALICHE A	ND SAND, FINE, AND GRAVEL 1 GRADED; MODERATELY INDUR	O 0.5"; PINKISH WHITE		
		A (1000 A)	(OIN 5) 2), (OONE	TOTAL MODEL TOTAL	,	**************************************	
5'						29	136 15 16 16 17 17 17 17 17 17 17 17 17 17 17 17 17
	- Ac	******	200				
0:			****			36	
			25'-45', SAND, FIN	E, CALICHE, GRAVEL AND CALC Y GRADED; MODERATELY INDUR	TE CLASTS TO 1"; PINK	.,,	B.GOLGHE VENEZA, VOCINCIS
5'				GODED, MODERATELI INDOR	1100)	100+	PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF
o <u>.</u>						60	
		Acceptable Address	o.				
5						74+	
				E, CALICHE AND GRAVEL TO 2"). (POORLY GRADED: POORLY T		***********	
) .			INDURATED)	, , , , , , , , , , , , , , , , , , , ,			• • • • • • • • • • • • • • • • • • • •
				SAND, FINE, AND GRAVEL TO 2		66+	
				LY TO MODERATELY GRADED; I			
5"			***			100+	NUMBER WOOD PROBLEM (TOTAL)
		**************************************	SE'_EE' CAND CINI	E. CALICHE, AND GRAVEL TO 2	TRACE CLAY AND CHT	Am no pro 11 - 1100 p.	\$1.000 PM - 1.00
) •			@ 64-65'; LIGHT R	EDDISH BROWN (2.5YR 7/3),			
			MODERATELY GRADE); MODERATELY INDURATED)		100+	
5'			UNCONFORMITY			83+	MON-SHAP CHART VINEETS O SE
			65'-75'. CLAYSTON	E AND SILTSTONE; WITH CALICI	HE FRAGMENTS: DARK		
,			REDDISH BROWN (2.	SYR 3/3) WITH SOME VARIEGA	TED BROWN-PURPLE		
			AND GREEN LAYERS	AND SPOTS, (POORLY GRADED	; MODERATELY	100+	780M 70'-10 120'-848.
54			J	KEY			

Consulting	Engineers	Client: DNCS PROPERTIE	s, LLC		POS No.: 542.01.01
Water Level Data NONE Ft. While Drilling (below ground surface) NONE Ft. at completion	E: -103.69491*	Date Started: 02-10-2013	Borehole Information Drilling Co.: PRECISION SA Rig Type: CME 85 Driller: JUAN BARRAZ	MPLING O	EI Rep: MLH HSA, ARR ROTARY brill Meth.: MSA, ARR ROTARY ampling Meth.: SS/BR/CC/AF
(below ground surface) water level data approximate	Elevation: 3979.03	T17S, R33E, N.M.P.M.	Helper: TINO V.		
Depth Graphic Meth	od	Soil/Lithology Description	n	Rig Blow Counts/ft	Notes:
	75'-80', CLAYSTON	ne and siltstone; weak red Brown-purple and green la Moderately indurated)		100+	
86' 85' 90'	WITH SOME VARIEGA	ne and siltstone; reddish b Ited Brown—Purple and Gre Moderately indurated)			
95'	95'-105', CLAYSTO VARIEGATED BROWN GRADED; MODERATE	ONE AND SILTSTONE; RED (2.5) —PURPLE AND GREEN LAYERS LY INDURATED)	R 5/6) WITH SOME		
10'	WITH SOME VARIEGA	TONE AND SILTSTONE; REDDISH ITED BROWN—PURPLE AND GRE MODERATELY INDURATED)	BROWN (2.5YR 5/4) EN LAYERS AND SPOTS,		
	6/4) WITH SOME V	TONE AND SILTSTONE; LIGHT RE ARIEGATED BROWN-PURPLE ANI RADED; MODERATELY INDURATED	GREEN LAYERS AND		
20'	WITH SOME VARIEGA	TONE AND SILTSTONE; REDDISH ITED BROWN—PURPLE AND GRE MODERATELY INDURATED)	Brown (2.5YR 5/3) En layers and spots,	**************************************	
30°-	SOME VARIEGATED E	TONE AND SILTSTONE; LIGHT RE SROWN—PURPLE AND GREEN LA MODERATELY INDURATED)	D (2.5YR 6/6) WITH YERS AND SPOTS,		
35°	WITH SOME VARIEGA	TONE AND SILTSTONE; REDDISH ITED BROWN-PURPLE AND GRE MODERATELY INDURATED)			
15'-	SOME VARIEGATED E	AYSTONE AND SILTSTONE; RED BROWN-PURPLE AND GREEN LA MODERATELY INDURATED)			

	Habbs,		SAMPLING METHOD: Hallow Stem Anger 6	1/211 0:D						DF	RILLING	er Borhen
ATUM: at EVATION	1320 46 -1030 42 msl rap	83	SURFACE CONDITIONS: Dre. Used bleven Fra	TIME DATE	20% 412/		ines.	(4)	re/	DATE G/IL Now		Amplos - Atex
NGLE: 90		BEARING:	Calcula covor fold.		_				1		T	SA
DEPTH IN FEET (ELEVATION)	WELL SCUMPING COMPLETION DETAILS	(i.e., angularity, moisture	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL , HCL reaction, cementation, max. particle size, gravel/cobbite hardness, odor, into	arbods, lam.)	% GRAVEI 2	% SAND*	% FINES	COLOR	CONSISTENCY3/ CEMENTATION*	(np, l, m, h)	Blew other rests.	STOR PIPE HE HE HE HE
-2	5-6 iph	2-7 3	Bry to'c", from slynty moint race, they to call the Control Brown (7.5) Gravels tolly Light Brown (7.5) Dry-Poorly Gradel, Toorly to Mad. Included	_							23	DRILLING CONTRACTOR TIPE IS IN
- l3	10-11.5 Spoon		I, Fine, with Galiche + Trace Gra to 1". Realdish Brown, (7.54RG/1 Poorly Graded, Poorly to moderated Foother Gliche Fied. Dry.								2 43 44	LOGGED BY: Mchay Refers en
	15-165 split speen	(3 - 2 7 Sam	tol". Reddish Yellow (7.6727/4) Well Grand, Proderately Indurated Calidation Dry.	1)							23 50+	LOGGED BY:
	20-215 Split Spom										15. 25. 25.	
~Z]	25-265 Split Spon	27-48 Sam Pa	a, Fine, with filt or Caliche, Taco C up to 1". Light Brown C7.57R6 orly Graded, Poorly Indurated. Dry.	irvels							55 11	JOB NO. 130 04414
	30-31.5 Spit Spoon										23 29 33	308
	35-365 SplitSpe	RA.									1831	

Golder Associates SITE NAME AND LOCATION: name and location DNCS Gordon Sourcements									1 3-	BORING NO.		
			SAMPLING METHOD: 1.5" LD 421+ FROM				SHEET 2 2 of 2 DRILLING					
RTHIN	المجمعها	MM		WATER LEVEL TIME							9:20	11:80
ASTING: ATUM: a LEVATIO	N:			DATE CASING DEPTH							DATE	DATE 6/12
RILL RIG NGLE: 90	CHETS	BEARING: -	SURFACE CONDITIONS:									
ET 0	S.		WPLE NUMBER AND DESCRIPTION OF MATERIAL		-H					VCY3/	_	STS
DEPTH IN FEET (ELEVATION)	WELESCHIP COMPLETION DETAILS		IMPLE NUMBER AND DESCRIPTION OF MATERIAL CL reaction, cameriation, max. particle size, graveVoobble hardness	sa, odor, interbeda, lam.)	% OVERSIZE	% GRAVEL	% SAND	% FINES	COLOR	CONSISTENCY ³ CEMENTATION ⁴	PLASTICITY (np, l, m, h)	SCO. OTHER TESTS'
الا		27-48 San	d, Fine, with silt or callede, Tre apto 1". Light Brown (7.5 YR)	re gravels								
	40-415		Poorly Froburated, Dry-						1			18
	Split	4	Finely layred (2-5 mm) her 35' Similar Soil charact	vens boung								17
	Spann		30 similar soil thoract	C/ (38/c5.								
	45-46.5											10
	Spl.t											11
44		44-67 San	of, well Graded w/ Caliche - ravels up to U". White L2.57 Vell Industral / Calichafied. Di	Trace								10 10 11 22 50 TZ
	50-	4001	revels up to U". White L2.67	9/1)				1				22
	51.5 Split spe	h	* Decreased Penetratia Rate	7								501
	,			_								32
	ST-565 Splitspeo											23
												12
	60-61.5											25
		1										
	65-665	i. Go.										22 50+
67	科子	G7-25 Clas	ctore and soltstone, wit	h.Calreha								30.
	70-70.5-	0. 1.00	Free wants, Derk Reddish Brown	2.54 23/5)								50+
	splot from		Poorly to moderately Gradel, I Indurated, Pry-	Moderately								7
	70.5-7.1 Bresi Rin	A No	Recovery from Brass Ring Significant Sample	emple,								70+
		75 7	Sylitspoon sample	0								
15		-75' Total	Depth									

Proposal for Vadose Zone Monitoring DNCS Properties, LLC Site 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 Associates,Inc.

for

BUREAU OF LAND MANAGEMENT

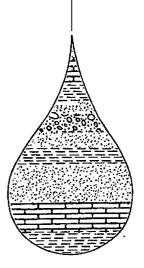
Denver, Colorado

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

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COUNTY A LE

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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	0911 090 1100 1100 1100	0911 0911 0911 0911	0911 090 1100 1100	0g11 0g11 0g1 11g0
Depth to Water(ft.)	57.48 56.29 58.74 66.44	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 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 17.31142	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

Remarks	Yield:50gpm(est) Yield:50gpm(est)	Oil test	Yield:9gpm(est) Yield:90gpm(est)	Yield:5Ogpm(est)	
Date of Measurement	Mar.10,1966 1948 Jun.1,1950 Mar.14,1961	Feb.10,1966 Jul.21,1954 Feb.8,1971 Feb.8,1971	Jun.3,1954 Sep.20,1947 Feb.8,1971 Jun.15,1946	Sep.23,1947 Feb.11,1966 Feb.8,1971 Feb.14,1966 Feb.18,1971	Feb,6,1961 Mar.14,1961 Mar.31,1971 Mar.31,1971 Feb.18,1971
Aquifer	0911 0911 0911 0911	09 09 09 11 11 11 10 10	Qtal 0g11 0g11 ? 0g11 ?	0g11 ? 0g11 0g11 0g11	0911 0911 1180 0911
Depth to Water(ft.)	173.19 60 60 148.33	168.14 175.6 162.21 136.89	82.9 70 47.11 70	70 120.13 31.53 146.98 159.58	149.72 145.20 162.20 209.87 181.94
Depth of Well(ft.)	200 192 190		139 140 200	130	152.0 310.0
Altitude (feet)	4225 4240 4240 4195	4239 4250 4232 4200	4180 4180 4200 4096 4170	4168 4092 4184 4183	4179 4173 4198 4198
Well Status	Used oil test Industrial/domestic Industrial/domestic Industrial Industrial	Unused industrial Industrial None Industrial Industrial	None Industrial/domestic Industrial/domestic Open hole Industrial/domestic	Industrial/domestic Abandoned stock Domestic Unused Oil test	Unused Shot hole Industrial Used floodwell Unused
Location	17.32. 1.32343 2.433 2.434 2.434343	3.13443 3.140 3.320 3.32114 3.43333	4.442 11.231 11.233 11.34332 11.411	11.411 12.44414 14.12121 17.33. 3.14134 4.241441	4.44322 4.4444 5.22221 6.11111

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 0911 0911 1091	0911 0911 1180 1180 1180	0911 0911 1180 1180 1180	100 100 100 1100 1100	0911 09111 : 1180 1180 1180
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	. 520	160.0	200.3 241	
Altitude (fect)	4234 4229 4191 4118 4124	4123 4176 4216 4230 4224	4165 4173 4140 4143	4125 4185 4188 4044 4053	4082 4057 4048 4079 4123
Well Status	Open hole Open hole Open cased hole Used windmill	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
Location	17.33. 7.141221 7.323221 9.342113 12.24333 13.341	13.434 16.24242 18.22133 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	0911 0911 0911 0911	0971 1180 1180 1180 1180	0911 090 1190 1190 1190	0911 0911 0911 0911	Ogll Trcl Trcl (tal
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	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 22.3232 34.22241 18.33. 3.34133

Records of wells from Lea County, New Mexico

Remarks					
Re					•
Date of Measurement	Feb. 19, 1971 Feb. 9, 1971 Feb. 9, 1971 Feb. 9, 1971 Feb. 5, 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.23,1971 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	0tal 0tal 0glj 0tal 0tal	Qtal Qtal Qtal Qtal	Trsc ? Qtal Trsc Ogll	0g11 0g11 0g11 0g11	0g11 0g11 0g11 Qtai
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 94.88
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 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	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

Proposal for Vadose Zone Monitoring DNCS Properties, LLC Site 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

SECTION _____

TOWNSHIP 175

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	l		(4) 0	£11	Weta	n ଦିବିନ୍ଦ୍ର ଏହେ	ac. Inc.	
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ection 2		774		I.	NIEK-BEAR	IIIO JIKAIA		
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3								
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5								
ction 3	}			RECOR	D OF CA	SING		
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Depth		Thickness	Color	Type of Material Encountered
From	То	in Feet	Color	Type of Material Encountered
0	1	1	Brown	Soil & rock
1	20	1.9	White	Caliche & rock
20	90	70	Grey	Sandy shale
90	120	30	17	Sand
L20	150	30	ti.	Sand, hard
150	165	15	79	Sand
165	180	15	Red	Sand
180	185	5	Grey	Sandy shale
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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.

change the location on map Was plotted @ 1. 33322

EIELD ENGR. LOG

STATE ENGINEER OFFICE

WELL RECORD

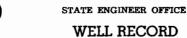
INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form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

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ection	2			PRIN	ICIPAL WA	TER-BEAR	NG STRATA		
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Dept From	To To	Hole i	n in.	Tons	No. Sa Cen	icks of nent	IO sacks m		
Dept From	To To	Hole i	n in.	Tons Clay	No. Sa Cen	cks of nent	IO sacks me	id used	In .
Dept From Section	th in Feet To 5	Hole i	n in.	Tons	No. Sa Cen	ecks of nent	IO sacks me	License N	To
Dept From Section Name of	th in Feet To 5 of Pluggin	Hole i	n in.	Tons	No. Sa Cen	cks of nent	TO sacks me	License N	
Dept From Section Name of	5 of Pluggin and Numb	Hole i	n in.	Tons Clay	No. Sa Cen	cks of nent	IO sacks me	License N State	
From Section Name of Street af Fons of Pluggin	5 of Pluggin Clay use g method	Hole i	n in.	Tons Clay	No. Sa Cen	cks of nent	IO sacks me	License N State pe of roughage	19
From Section Name of Street af Pluggin	5 of Pluggin and Numb	Hole i	n in.	Tons Clay	No. Sa Cen	cks of nent	IO sacks me	License N State	19
From Section Name of Street af Fons of Pluggin	5 of Pluggin Clay use g method	Hole i	n in.	Tons Clay	PLUGG	cks of nent	TO sacks me	License N State pe of roughage gged gs were placed	19
From Section Name of Street af Pluggin	5 of Pluggin Clay use g method	Hole i	n in.	Tons Clay	No. Sa Cen PLUGO Roughage t	cks of nent	TO sacks me	License N State pe of roughage gged gs were placed	19as follows:
From Section Name of Street a	5 of Pluggin and Numb	Hole i	ctor	Tons Clay	PLUGG	cks of nent	TO sacks me	License N State pe of roughage gged gs were placed	19 as follows:
From Section Name of Street af Pluggin	5 of Pluggin and Numb	Hole i I2 I2 I2 I2 I2 I2 I3 I4 I4 I5 IE IE IE IE IE IE IE IE IE	torTo	Tons Clay	PLUGO Roughage to	cks of nent	TO sacks me	License N State pe of roughage gged gs were placed	19 as follows:
Dept From Section Name of Street a Fons of Pluggin	5 of Pluggin and Numb	Hole i	TE ENGL	Tons Clay	PLUGG	cks of nent	TO sacks me	License N State pe of roughage gged gs were placed	19as follows:
Dept From Section Name of Street a Fons of Pluggin	5 of Pluggin and Number Clay use g method g approve	Hole i	torTo	Tons Clay	PLUGG	cks of nent	TO sacks me	License N State pe of roughage gged gs were placed	as follows:

From	in Feet	Thickness in Feet	Color	Type of Material Encountered
0	2	2	Oray	Surface soil
2	5	3	White	Caliche rock
5	70	65	Red	Sand
70	IIO	140	Brown	Sand
IIO	125	15	Brown ·	Sand rock
IZE	192	67	Brown	eand >
192	SIO	18	Red	Water sand
210	212	2	Red	Shale
212	224	12	Browd	Water sand
224	225	1	Red	She1#
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-				OF ALTITUDE GIVEN
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	ļ		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 Driller



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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Section 2			PRINC	CIPAL WA	TER-BEAR	NG STRATA				
No.	Depth in	Feet	Thickness in		Des	cription of Water	-Bearing Formation	1		
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1	295	225	20		Grua in Nation	r o. r				
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Section 3				RECOR	D OF CAS	ING	-			
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Section 4			RECORD	OF MUE	DDING AN	D CEMENTING				
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Section 5					SING RECO					
Name of	Plugging	Contracto	Or				License No.			
Street an	d Number				City		State			
Tons of C	Clay used		Tons of Ro	ughage u	ısed	Туј	pe of roughage			
Plugging	method us	ed				Date Plu	gged	19		
Plugging	approved 1	by:				Cement Plug	gs were placed as	follows:		
			n		No	Depth of P	No. of	Sacks Used		
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#3 Malianes 2-127-

Denth	in Feet	Thickness		
From	To	in Feet	Color	Type of Material Encountered
0	2	2	Gray	Surface soil
2	5	3	White	Caliche rock
5	70	65	Red	Sand
70	IIO	40	Brown	Send
IIO	125	15	Brown ·	Sand rock
IZE	192	67	Brown	send >
192	510	18	Red	Water sand
210	212	2	Red	Shale
212	224	12	Browd	Water sand
224	225	I	Red	Shale
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			culture	OF ALTITUDE GIVEN
				om Topo. Sheet X
				y Inst. Leveling
		Ī		A JUST FEASING
			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

LOG OF WELL

Depth in Feet Thickness							
From	То	in Feet	Color	Type of Material Encountered			
j	Ĭ.	i	نا در درنش	ಕರ್ಷ ಚಲನಸ			
2	20	1.9	.: 1 i.e.	Citchie room			
1	2.25	140	BLOWN	Sauly Cary			
267	222	2.)	uleij	water sade			
₹.	220	ن	rec	>1:& i. €			
728	250	22	brown	water said			
250	255	5	Promi	br.ed.C			
			,	Top of red bed			
				L S Elev			
				L S Elev			
				Depth to K			
				Elev at K			
	-						
		ļ					
				SP 17.32.1.42213			
				Loc. No.			
				Hydro. Survey Field Check			
				Tield Clieck			
				COURCE OF ALTITUDE ONES			
				SOURCE OF ALTITUDE GIVEN			
				Interpolated from Topo. Sheet			
				Determined by Inst. Leveling			
				Other			
		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

6.0. aldredge Well Driller

L-3980-X

17.32.1.420

Form WR-23

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.

ection 1				(A) Owner	of well	Ma	ljamar Repres	suring Agreem	ent #6
				Street and	Number				
									d is located in th
.									Rge. 32
				(B) Drillin	g Contra	ctor	George Penn	ington Lice	ense No
		1							
				•					New Mexico
				Drilling wa	as comme	enced		7:ma 9	19
(P	lat of 640	acres)	j	Drilling wa	s comple	ted		June 2,	19_50
•			n feet	t above sea	level		Total de	oth of well	200 ft.
	-								etion
								•	
ection 2					JIPAL WA	VIEK-BEA	RING STRATA		
No. Depth in Feet Thickness in Feet			D	escription of Wate	r-Bearing Formati	on			
1	139	195	Ī	60	Sand a	nd litt	le gravel		
2									
3									
4			<u> </u>						
5			-		·				
			1	-					
ection 3	3				RECOR	D OF CA	SING		
Dia	Pounds	1		Top	Bottom	Feet Type Sho		From	orations To
in.	ft.	in					-		
7			-	0	196	196		153	196
10 3/4				0	145	145	Pulled as	well was grav	vel packed.
									
				<u> </u>					-1
ection 4	1			RECORD	OF MUE	DDING A	ND CEMENTING		
	in Feet	Diam Hole i		Tons Clay	No. Sa Cerr	cks of	to the second	Methods Used	
From	То	Hote 1	п ш.	Clay	Cen				
		<u> </u>			-		<u> </u>		
									
	<u>'</u>								· · · · · ·
ection 5	5				PLUG	ING RE	CORD		• •
									Q
lugging	method	used					Date Plu	igged	19
lugging	approve	d by:					Cement Plu	gs were placed	as follows:
	,					Γ.	o. Depth of I	Plug No	of Sacks Used
				Basin Supe	rvisor		From	ro No.	Or Dates Office
	FOR US	E OF STA	TE EN	GINEER ON	ILY				
	Received								
Date .	100001104								
Date .	210001704								
Date .	2,000,704								

45 Mal 2000 0-120-1

LOG OF WELL

	in Feet	Thickness	Color	Type of Material Encountered
From	То	in Feet	Color	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
				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.
				L S Elev 4/95 Depth to K Trc 135 Elev of K Trc 4060
				17-17-32-2-43343
			<u> </u>	Loc. No
		-		nyuro, Surveyrield Orleck
				COURSE OF ALTERNATION
				SOURCE OF ALTIFUDE GIVEN
				Interpolated from Topo. Sheet X
				Other
	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.

George P	ennington
	Driller
41 CTT	Differ

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.

	Ĺ		(A) Oumer	r of woll	Maljam	ar Repressur	ing Agreement	#5	
								d is located in th	
								Rge. 32	
1	 - -						_	nse No	
			, ,	_					
ļ								New Mexico	
			-					19	
			_					19 48	
	Plat of 640 a n at top of		et above sea	level		Total de	oth of well 1	82 ft.	
State wh	nether wel	l is shallow	or artesian_			Depth to wa	ter upon compl	etion	
Section 2	2		PRINC	CIPAL WA	TER-BEAR	ING STRATA			
No.	Depth in	To Th	ickness in Feet		De	scription of Water	-Bearing Formati	on	
1	126	180		Red wa	ter san	d			
2							7		
3									
4									
5									
Section 3	3		.,	RECORI	OF CAS	SING			
Dia	Pounds	Threads	Dept		Feet Type Shoe		Perforations		
in.	ft.	in	Top	Bottom			From	То	
7		-	0	182 182			113	182	
	!	<u> </u>	<u> </u>	I					
Section 4	<u> </u>		RECORD	OF MUD	DING AN	D CEMENTING			
Depth	in Feet	Diameter	Tons	No. Sac			Methods Used		
From	То	Hole in in.	Clay	Ceme	ent		Internous Cacq		
0	182	10			1 1				
							. 1 1 4 1		
							en e		
							· · · · · · · · · · · · · · · · · · ·		
							· · · · · · · · · · · · · · · · · · ·		
Soution 5				PILIGG	ING RECO	OPD	· · · · · · · · · · · · · · · · · · ·		
					ING REC				
Name of	Plugging	Contractor					License N		
Name of Street an	Plugging	Contractor			City		License No		
Name of Street an Fons of (Plugging nd Number Clay used	Contractor	Tons of Ro		City	Туј	License NoState		
Name of Street and Fons of C	Plugging ad Number Clay used method u	Contractor	Tons of Ro		City	Tyj	License No State oe of roughage_ gged	19	
Name of Street and Fons of C	Plugging nd Number Clay used	Contractor	Tons of Ro		City	Tyj	License NoState	19	
Name of Street an Tons of (Plugging	Plugging nd Number Clay used method u approved	Contractor	Tons of Ro	ughage us	City	Tyj Date Plu Cement Plug Depth of P	License No.	19	
Name of Street an Fons of (Plugging	Plugging nd Number Clay used method u approved	Contractor sed by:	Tons of Ro	ughage us	City	Tyj Date Plu Cement Plug Depth of P	License No State	19s follows:	
Name of Street an Tons of (Plugging	Plugging ad Number Clay used method u	Contractor sed by:	Tons of Ro	ughage us	City	Tyj Date Plu Cement Plug Depth of P	License No.	19s follows:	
Name of Street an Tons of (Plugging Plugging	Plugging and Number Clay used a method u approved FOR USE	Contractorsed by:	Tons of Ro Basin Supe	ughage us	City	Tyj Date Plu Cement Plug Depth of P	License No.	19s follows:	
Street an Fons of (Plugging Plugging	Plugging and Number Clay used a method u approved FOR USE	Contractorsedby:	Tons of Ro Basin Supe	ughage us	City	Tyj Date Plu Cement Plug Depth of P	License No.		
Name of Street an Fons of C Plugging Plugging	Plugging and Number Clay used a method u approved FOR USE	Contractorsed by:	Tons of Ro Basin Supe	ughage us	City	Tyj Date Plu Cement Plug Depth of P	License No.	19s follows:	

LOG OF WELL

Depth From	in Feet	Thickness in Feet	Color	Type of Material Encountered
0	20		brown	Top Soil
20	38	-	brown	Loose sand
38	70	 	grey	Pirm sand
70	82	 	brown	Loose sand
82	98			
	+	-	red.	Sandrock
98	126		brown	Sand and gravel
126	180		red	Water sand
180	182		ber	Shale
				This well is located in State Section 2
	1			T-17 S., R. 32 E., M.M.P.M., Lea County
		1		New Mexico.
	 			
		 		
******				L S Elev
		 		Depth to KTrc_/80
	ļ			Elev of K Trc 40/5
		ļ		
				Loc. No. 17.32.2. 43434V
	1			Hydro. Survey Field Check X
				Trydro. Survey Hold Glicon
		1		
		1 :		
	-		4	SOURCE OF ALTITUDE GIVEN
-		-		Interpolated from Topo. Sheet
		 		Determined by Inst. Levaling
	<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.

Ed.	Burke			
	*** **	The		

L-4019

17.32.2.434

Form WR-23

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		(4) 0	611	Maljan	ar Co-on Ren	ressuring Ag	reement #7
								2 4040110 117
ļ			1					
<u></u>								nd is located in the
								s. Rge. 32 E.
			(B) Drill	ing Contra	actor Geo	rge Penningt	on Lice	ense No
1		1:	Street and	Number.				
	 -		City			·	State	
			Drilling v	vas comm	enced			19
								19 50
	Plat of 640	-	_					
Elevatio	n at top o	f casing in	n feet above se	a level		Total de	oth of well	190 ft.
State wl	hether w e	ll is shalle	ow or artesian.	shal	low	Depth to wa	ter upon compl	letion
Section	2		PRIN	ICIPAL WA	ATER-BEAR	NG STRATA		
No.	Depth i	To	Thickness in Feet		Des	cription of Water	-Bearing Formati	lon
1	160	185	25	Sand	and lit	tle gravel.		
2								
3								
4								
5								
Section	3 .			RECOR	D OF CAS	ING		
Dia	Pounds	Threa			Feet	Type Shoe		forations
in.	ft.	in	Top	Bottom			From	То
	ļ		0	197	197		153	197
10 3/4	ļ <u>.</u>			155	155	Pulled as	well was gr	avel packed.
	ļ	<u> </u>						<u> </u>
	<u>!</u>				·			
Section	4		RECOR	D OF MUD	DING AN	D CEMENTING		
Depti	h in Feet	Diame		No. Sa		And the second	Methods Used	
From	То	Hole in	in. Clay	Cem	ent	i vila	memous oseu	
	<u>i</u>	1		1				
				DI LIGO	ING RECO	000		. , , , , , , , , , , , , , , , , , , ,
Section 8								
								Q
	•			-		-		
Plugging	g method ı	ised					••	19
Plugging	approved	by:				Cement Plug	s were placed a	as follows:
					No.	Depth of P	ug No.	of Sacks Used
			Basin Sup	ervisor		From T	0 110.	or sacas oseu
	FOR US	OF STAT	E ENGINEER O	NLY	<u>.</u>			
						1 1		
Date	Received		·					
						 		
					J			
File No	L-402	1		UseS. R	. O. Q.	Location	n No. 17.32.	2.44333

Depth From	in Feet	Thickness in Feet	Color	Type of Material Encountered
	То	III reet		
0	20		brown	Top soil
20	50			Caliche
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 betw
				10-3/4" pipe and 7" pipe; 10-3/4" pipe ru
				to 155' and pulled as well was graveled.
				Driller estimated that well was good for
				100 galions of water per minute.
				This well is located in State Section #2,
				T-17S, R-32E, NMPM, Lea County, New Mexic
				10" hole was drilled by George Pennington
				of Loco Hills, New Mexico. Completed
				June 14, 1950.
				L S Elev
				Depth to K Trc 1837
				Elev of K Trc 4018
				F- 17.32.2.443.33
			, <u>u</u>	
				Loc. No.
				Hydro. SurveyField CheckX
				SOURCE OF ALTITUDE GIVEN
				Interpolated from Topo. Sheet X
				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 1	
Welli	muer

L-4021

17.32.2.443



STATE ENGINEER OFFICE WELL RECORD

Section 1. GENERAL INFORMATION

Street or Post Office Address	(A) Owner of Street or	of well <u>Mes</u> Post Office Ac	calero I	Ridge W	Ater Coo x 49	op.	Owner	r's Well No.	
a N. NE. N. SE. N. SE. N. of Section 3 Township 17S Range 32E N.M.P.N. In Lea Country. 6. Tree to of Map No. of the Country. 6. Lot No. of Block No. of the Subdivision, recorded in Country. 6. X. feet, Y. feet, Y. feet, N.M. Coordinate System Zone in Grant the the Grant Subdivision, recorded in Country. 6. X. feet, Y. feet, Y. feet, N.M. Coordinate System Zone in Grant Canal Subdivision, recorded in Country. 6. X. feet, Y. feet, N.M. Coordinate System Zone in Grant Canal Subdivision, Part Country Size of hole 9 7/8 in Size of hole 9 7/8									:
in Lea County. b. Tract No	Well was drille	d under Permit	NoL_	4021-S	· · · · · · · · · · · · · · · · · · ·	_ and is locate	d in the:		
Subdivision, recorded in	i 1	n Lea Cou	inty.			•			
Completed well is Section 3. RECORD OF CASING Section 4. RECORD OF MUDDING AND CEMENTING Depth in Feet Hole Sacks Cubic Feet From To Diameter From To Diameter From To Diameter Of Mud Of Cement Of									
Address 1200 E. Bender Blvd., Hobbs, NM 88240 Drilling Began 1-21-02 Completed 1-24-02 Type tools rotary Size of hole 9 7/8 in Elevation of land surface or at well is ft. Total depth of well 260 ft Completed well is EX shallow artesian. Depth to water upon completion of well ft Section 2. PRINCIPAL WATER-BEARING STRATA Depth in Feet 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 foot Per in. Top Bottom (feet) Type of Shoe From To 6 160ps1 260 180 260 180 260 Section 4. RECORD OF MUDDING AND CEMENTING Depth in Feet Diameter of Mud of Cement Method of Piacement Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD No. Depth in Feet Cubic Feet Cubic Feet Top Bottom of Cement Cement Top Bottom of Cement Cement Company Top Bottom of Cement Ce			_ feet, Y=		feet, N	I.M. Coordinate	System		
Drilling Began 1-21-02 Completed 1-24-02 Type tools rotary Size of hole 9 7/8 in Elevation of land surface or at well is ft. Total depth of well 260 ft. Completed well is XX shallow artesian. Depth to water upon completion of well ft. 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 Depth in Feet Length (feet) Type of Shoe From To 6 160psi Depth in Feet Corporations Section 4. RECORD OF MUDDING AND CEMENTING Depth in Feet Of Mud of Cement Method of Placement Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD No. Depth in Feet Corporation Company Bottom of Cement Corporation Company Bottom Corporation Company Bottom of Cement Corporation Company Bottom Compan	(B) Drilling (Contractor	Alan Ea	des		•	License No	WD1044	
Section 2. PRINCIPAL WATER-BEARING STRATA Section 2. PRINCIPAL WATER-BEARING STRATA Depth in Feet To in Feet Description of Water-Bearing Formation Section 1. Performance Section 3. RECORD OF CASING	Address1	200 E. Be	ender Bl	vd., Hob	obs, NM	88240			
Section 2. PRINCIPAL WATER-BEARING STRATA Depth in Feet Thickness Description of Water-Bearing Formation Estimated Yield (gallons per minute)	Drilling Began	1-21-02	2 Соп	npleted 1-2	21-02	Type tools _	rotary	Size of hole	9 7/8 in.
Section 2. PRINCIPAL WATER-BEARING STRATA Depth in Feet Thickness in Feet Description of Water-Bearing Formation Estimated Yield (gallons per minute)	Elevation of la	nd surface or			at we	:11 is	ft. Total depth	of well 26	<u>0</u> ft.
Depth in Feet Thickness in Feet Description of Water-Bearing Formation Estimated Yield (gallons per minute)	Completed wel	llis ECX si						of well	ft.
Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD	Depth	in Feet			CIPAL WATE	R-BEARING S	TRATA	Estimated	l Yield
Section 3. RECORD OF CASING Diameter Pounds (inches) per foot per in. Top Bottom (feet) Type of Shoe From To 6 160psi 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 No. Depth in Feet Cubic Feet of Cement Method of Cement Mugging Method are Well Plugged Mugging approved by: 2 State Fairness Paiswarestrian 3 3 3				- 1	Description of	Water-Bearing	Formation		
Section 3. RECORD OF CASING Diameter Pounds per foot Perforations Top Bottom (feet) Type of Shoe Perforations From To 180 260 Section 4. RECORD OF MUDDING AND CEMENTING Depth in Feet Hole Diameter of Mud of Cement Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD No. Depth in Feet Cubic Feet Cubic Feet Total Section Sec	185	257	72	Sand	& SAndy	Brown C	lay		
Section 3. RECORD OF CASING Diameter (inches) per foot per in Top Bottom (feet) Type of Shoe From To 6 160psi 260 180 260 180 260 Section 4. RECORD OF MUDDING AND CEMENTING Depth in Feet Hole Sacks Cubic Feet of Mud of Cement From To Diameter of Mud of Cement Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD No. Depth in Feet Cubic Feet of Cement No. Top Bottom of Cement Lugging Method Top Bottom of Cement Section 5. PLUGGING RECORD		<u> </u>		Stri	ngers				
Diameter (inches) Pounds (inches) Pounds (per in. Top Bottom (feet) Type of Shoe Perforsitions From To									·
Diameter (inches) per foot per in. Top Bottom (feet) Type of Shoe From To 6 160psi									
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 No. Depth in Feet Cubic Feet Top Bottom of Cement No. Depth in Feet Cubic Feet Top Bottom of Cement Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD				Section	n 3. RECORD	OF CASING			
Section 4. RECORD OF MUDDING AND CEMENTING Depth in Feet							Type of Shoo	•	
Section 4. RECORD OF MUDDING AND CEMENTING Depth in Feet	6	160psi				260		. 180-	260
Section 4. RECORD OF MUDDING AND CEMENTING Depth in Feet Hole Sacks Cubic Feet of Mud of Cement Method of Placement From To Diameter of Mud of Cement Method of Placement Section 5. PLUGGING RECORD Plugging Contractor Address No. Depth in Feet Cubic Feet of Company Method No. Top Bottom of Cement Date Well Plugged 1 Plugging approved by: 2 3				1 2					
Depth in Feet Hole Diameter of Mud of Cement Method of Placement Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD No. Depth in Feet Cubic Feet Top Bottom of Cement Date Well Plugged 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								<u> </u>	
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. Placement Section 7. PLUGGING RECORD Section 6. PLUGGING RECORD Section 7. PLUGGING RECORD Section 8. PLUGGING RECORD Section 9. PLUGGING RECORD Section 9			Sect	ion 4. RECOI	RD OF MUDD	ING AND CEN	MENTING	in in	1
Section 5. PLUGGING RECORD lugging Contractor							Metho	d of Placement	
Section 5. PLUGGING RECORD lugging Contractor								يا	
Section 5. PLUGGING RECORD Plugging Contractor Address Plugging Method Top Bottom of Cement Plugging approved by: State Foriging Proceedabilities State Foriging Proceedabilities									
Section 5. PLUGGING RECORD Plugging Contractor				1					11/2/
No. Depth in Feet Cubic Feet Top Bottom of Cement Date Well Plugged 1 2 3	Hugging Contr	setor		Section	n 5. PLUGGII	NG RECORD		* 1:***	
Date Well Plugged 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Address					No.			
State Engines Personatative 3	** *			~			Тор	Bottom C	or Cement
State Engineer Representative 4	lugging approv	ved by:		94 Tu			and the second of	1 m m m m m m m m m m m m m m m m m m m	and the second second second
			State Eng	gineer Represe	ntative	4			
Pate Received 02/05/02 FOR USE OF STATE ENGINEER ONLY #215199	ate Received	02/05/03	2.	FOR USE	OF STATE E	NGINEER ON	LY #2	15199	
					Quad	,—	FWL	FS	L
File No. 2-4021-5 Use Suppl Location No. 17.32.3442	File No	1-40	21-5		Use	ppl_	Location No. 17	1,32,34	Fol

			Section 6, LUG OF HULE
Depth From	in Feet To	Thickness in Feet	Color and Type of Material
0	1	1	Top Soil
1	26	25	Caliche
26	90	64	Sand
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

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

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

Section 1. GENERAL INFORMATION

A) Owner o	f well	ddress				Owner's	Well No.	
								
ll was drille	d under Permit	No		an	d is located	in the:		
a	¼ 3	¼ ¼ <u></u>	¼ of Section	1	Township	Range		N.M.P.M
b. Tract	No	of Map No		of the				
		of Block No						
						ystem		Zone i
						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Drilling (Contractor					_ License No		
iress								
lling Began		Comple	ted	Ту	pe tools		_ Size of hole	: in
vation of la	nd surface or .			at well is_		_ ft. Total depth of	well	ft
mpleted wel	ll is 🗀 s	shallow 🗆 art		_		upon completion of	well	ft
Depth	in Feet	Thickness	on 2. PRINCIPAL		· · · · · · · · · · · · · · · · · · ·		Estimate	d Yield
From	То	in Feet	Descript	ion of Wate	er-Bearing F	ormation	(gallons pe	r minute)
		ļ						
			ļ					
							· · · · · · · · · · · · · · · · · · ·	
			Section 3. RE	CORD OF	CASING			
Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top Bot	tom	Length (feet)	Type of Shoe	From	forations To
		Section	4. RECORD OF	MUDDING	AND CEMI	ENTING		
Depth From	in Feet To	Hole Diameter	Sacks of Mud	Cubic of Cer		Method	of Placement	
						;		
			· · · · · · · · · · · · · · · · · · ·					
								
igging Conti	ractor		Section 5, PL	UGGING R	ECORD.			
dress					No.	Depth in Fe		Cubic Fect
						Тор В	ottom	of Cement
gging appro	_				2			
		State Engin	eer Representative		- 3 4			
			FOR USE OF STA	ATE ENGI	NEER ONL	1		
te Received		5/11/78		Quad		FWL	F	SL
Eu- M						ocation No. 17.3		
File No			Use _			ocation No.		

Section 6. LOG OF HOLE

			Section 6. LOG OF HOLE
Depth From	in Feet To	Thickness in Feet	Color and Type of Material Encountered
		Mi / CCC	
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
	1		
		·	
			1.44

Section 7. REMARKS AND ADDITIONAL INFORMATION

This	wel1	record	is	an	excerpt	from	011	Conservation	Commission	files	at	Hobbs,	N.M.	,
------	------	--------	----	----	---------	------	-----	--------------	------------	-------	----	--------	------	---

Location: 17.32.3.4323334

Elevation: 4284' GL

Owner: Chevron U.S.A. Inc.
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 e appropriate district office of the State Engineer. ons, except Section 5, shall be answered as completely and accuration this form is used as a plugging record, only Section 1(a) and Section possible wife. possible when any well is drilled, repaired or deepen

STATE ENGINEER OFFICE WELL RECORD

Section 1. GENERAL INFORMATION

					Owner's	Well No.
		ddress				
l was drilled	d under Permit	t No		and is located	in the:	
a	_ ¼ !	¼ ¼	¼ of Section	Township	Rang	eN.M.P.N
b. Tract	No	of Map No		of the		
c. Lot N	lo	of Block No		of the		
				•		
		feet, Y=				Zone i
Drilling (Contractor			· .	_ License No	
ress						
ling Began			eted	Type tools		Size of holei
ation of la	nd surface or -			at well is	_ ft. Total depth o	f wellf
ipleted wel		shallow 🗆 ar				f well f
ipicica woi						
Depth	in Feet	Thickness	1	WATER-BEARING ST		Estimated Yield
From	То	in Feet	Descript	ion of Water-Bearing F	ormation	(gallons per minute)
			Section 3 RF	CORD OF CASING		
Diameter	Pounds	Threads	Depth in Feet	Length	Type of Shoe	Perforations
(inches)	per foot	per in.	Top Bot	tom (feet)	1,700 01 01100	From To
		Section	n 4. RECORD OF	MUDDING AND CEM	ENTING	
Depth From	in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method	of Placement
110111	1					
		-				
			<u> </u>			
			Section 5. PL	UGGING RECORD		
gging Contr	ractor					
lress				No.	Depth in F	Cubic Feet . Bottom of Cement
ging Metho e Well Plug					Тор	Bottom of cement
gging appro	ved by:			2		
		State Engir	neer Representative	3 4		
			EOD LISE OF ST	ATE ENGINEER ONL	v	
e Received	Typed	5/11/78	TOR OUR OF BIA			
				Quad	FWL	FSL
File No		у .	Use _	011	Location No. 1	7.32.3.44300

			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	The second secon	Red rock
			1 S Flav 4285 4285
			L S Elev 4285 4285 Depth to K 250: Trc 1155 Elev of K 3985 Trc 4170
			Elev of Karra Irc. 12.12

Section 7. REMARKS AND ADDITIONAL INFORMATION

		_				_						
This	well	record	18	an	excerpt	from	011	Conservation	Commission	files at	Hobbs.	N.M.

Location: 17.32.3.44300 Owner: Chevron Oil Co.

Elevation: 4285' DF

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 hole.

Driller

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.

			(4) 0	mam of	نن و قد	TTV JUUGO			
		.		ner or wen. nd Number.		rry ,ooto_			
							State	ew p	exico
			Well wa	s drilled ur	nder Perr	nit No. 5.1SU.	2-1-59	and is loca	ted in the
			L	1 1 1 1/4	est rom	4 of Section	1) Two.	175 Rge.	32E
-			(B) Dri	lling Contra	actor	C. C. Aler	tuje L	icense No	79
		.	Street a	nd Number		DOX 579			
			City	1.U.A	ing wa) i	State	55 W 38	COLO
			Drilling	was comm	enced	الأ	ししも思いさず	25	19
	<u> </u>		Drilling	was comple	eted	ما دناند نطنت	ry 1,		19
(I	Plat of 640 a	cres)						(6.6	
evatio	n at top of	casing i	n feet above s	sea level	F. 10:	Total de	pth of well	·	132
ate wh	ether wel	l is shall	ow or artesia	n Si.411		Depth to wa	ter upon com	pletion	172
ction 2	2		PR	INCIPAL WA	TER-BEAR	ING STRATA			
No.	Depth in		Thickness in		De	scription of Water	r-Bearing Form	ation	
	From	То	Feet						
	132	156	24	Re	a sate	r Jand			
					:				
					:				
			<u> </u>	DECOR	D 05 04			-	
tion 3	· I	1			D OF CA	SING	1		
Dia in.	Pounds ft.	Threa		epth Bottom	Feet	Type Shoe	From	erforations	Го
			0	150	ةرً1				100
0 71	A ser	Gen	''	1 7.70			1 156		
	1				120	.16.116	136		-,-
					1,0	.igae	136		
					1,0	AGILE	126		
							136		
tion 4			RECO	RD OF MUD	DDING AN	ND CEMENTING	136		
Depth	in Feet	Diame Hole in	ter Tons	RD OF MUD	DDING AN		Methods Use		
Depth	 	Hole in	ter Tons	RD OF MUD	DDING AN	ND CEMENTING	Methods Use	d	
Depth	in Feet	1	ter Tons	RD OF MUD	DDING AN	ND CEMENTING	Methods Use	d 1-չ մուս	π ∙ σ Σ € 0
Depth	in Feet	Hole in	ter Tons	RD OF MUD	DDING AN	D CEMENTING SECAB 1 TOP	Methods Use	d Lig sinc	h varea
Depth	To	Hole in	ter Tons	NO. Sa Cem	DDING AN	D CEMENTING SECAB 1 TOP	Methods Use	d Lig sinc	h varea
Depth	in Feet	Hole in	ter Tons	RD OF MUD	DDING AN	D CEMENTING SECAB 1 TOP	Methods Use	d Lig sinc	h varea
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Depth From tion 5 me of eet ar	Plugging and Number	Hole in 7	ter Tons of	PLUGG	DDING AN cks of lent BING REC City sed	D CEMENTING SECAB 1 top (well to ORD	Methods Use Of Critical Of Critical Resp hole License State pe of roughage	d Lighter Rile F1 E 17:44 C	αγγαξ TTT::S Tropeo
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Depth From etion 5 me of reet arns of	Plugging ad Number Clay used approved	Contractor sed by:	ter Tons of Basin St	PLUGG	DDING AN	Depth of P	Methods Use Of Critical Critical Resp holical License State pe of roughag gged gs were placed lug No	d 11.3 mac 11.14 c	ழாவ் 60 பப்பத் வ¥ப்பத் வ¥ப்பத்
Depth From etion 5 me of eet ar	Plugging ad Number Clay used approved	Contraction sed by:	ter Tons of Basin St	PLUGG	DDING AN	Depth of P	Methods Use Of Critical Critical Resp holical License State pe of roughag gged gs were placed lug No	d 11.3 mac 11.14 c	ழாவ் €0 பப்பத் வ¥ப்பத் வ¥ப்பத்
ection 5 me of reet ar ns of (Plugging and Number Clay used method u approved	Contraction by:	ter Tons of Basin St Addington	PLUGG Roughage u	DDING AN	Depth of P	Methods Use Of Critical Critical Resp holical License State pe of roughag gged gs were placed lug No	d 11.3 mac 11.14 c	ழ , மூ 60 பப்பத் வ V ப்பத்
Depth From	Plugging ad Number Clay used approved	Contraction by:	ter Tons of Basin St	PLUGG Roughage u	DDING AN	Depth of P	Methods Use Of Critical Critical Resp holical License State pe of roughag gged gs were placed lug No	d 11.3 mac 11.14 c	ழ , மூ 60 பப்பத் வ V ப்பத் பு

Section 6

LOG OF WELL

Depth is		Thickness	G-1	The state of the s
From	To	in Feet	Color	Type of Material Encountered
.3	9	り	EFOWE	Top doil
1,	461	7	6-0. 1 .64. :	Callogie Acck
7.3	3.32	120	Mar Grant.	Secus Class
132	450.	24	Reu	and or Succ

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. aldredge Well Driller



STATE	ENG	INEER	OFF	ICE
W	ELL	RECO	RD	

	No									•	<i>U</i>	
						feet, N.M	i. Coordi	nate Syst	em			Zone i
	Contractor											
ddress	P.D. Box	305	, <u>k</u>	AMES	A,	TX	<u>793</u>	31	01		806-8	71-328
rilling Bega	5-14-6	007 c	omplete	ed <u>5 -/</u>	5 6	2007	Type too	ls <u>HIR</u>	Rote	tey.	Size of hole.	in
	land surface or .	•									,	
ompleted w	લા છ 🔼 ર									etion of w	ell N/A	ft.
	[mFeef	Thickn		2. PRINC							Estimated	Yield
Prom .	₹ To	in Fe	t	De	scrip ti	on of Wi	ter-Beari	ng Form	tion	_ _ (gallons per	
<u></u>	1.1			· · · · · · · · · · · · · · · · · · ·								
EN:									···			
		ļ .										:
		L			:	:		•			· ·	
Diameter	Pounds	Threads	1	Section 3 Depth in			Length				Perfo	rations
(inches)	per foot	per in.	7	ОР	Botto	om .	(fest)	_	Typs of	2000	Prom	To
10	sch 40	PVC	72		95	-		1	020	,	95	125
									•			
. Depth	in Feet	Sec Hole	tion 4.	RECORD	OF M		Feet	EMENTI				
From	То	Diameter 2/		of Mud			ment	· · · · · ·		thod of P	lacement	
0	80	83/4		EMBU	-			pou	ELD		· · · · · ·	
80	120	8 3/4	Jh€	putou	15			pou	(251)		,	
20	125	SAND	عال	SAU	ار	:		pou	REF) <u> </u>		
				Section 5.	PLUC	GING R	ECORD					
ging Contra	ictor											,
ring Metho	d						No.	<u></u>	Гор	In Feet Botto		bic Feet Cement
Well Plugg ging approv			-				- 1	+ :			_	
	· · · · · · · · · · · · · · · · · · ·			Representa			- 3					

4.				
			Section 6. LOG OF HOLE	
From Dept	h in Feet To	Thickness in Feet	Color and Type of M	sterial Encountered
0	15	5	SMUD: Mellowed PED NFG	deu domo loose.
5	20			- REDDISA VALOW LOOSE
20	25	5	SANDADNE: LOOSELY CONS	
25	60	35	SAND MINORLY CONSOLID	ALED H. PEDDISH DECOLD,
ค			soft deu silty vf	- FINE NOW plastic
60	80	20	SAND LOOSELY CONSOLID	ALED VERY DATE BERY
			Vf-FINE SIHY, NAN	MASTIC dry
80	90	10	SANDSTONE WISHALE	INTERBEDS! It yellows
			brown loosely consol	loaten Vf-f deu.
90	110		SAND INterbedded	WISHALE : SAND-
			uellowish beown, loos	8, slightly damn.
			Silty. ShAlE: DROWN	VERY PINE
110	120	10	SAND INTER hedded I	115/1A/E: SAND-
			uellowish benwo . I	DOSE Slightly
			damy NON DIASTIC.S	ilty. Shale:
			aleenish arm, sil	ty, deuse
120	125	5	SAND, H. Vellowis	h benwe damo
			slightly plastic !	DOSE VF-FINE SILTY
				. / /
	9.4		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 hole.

Driller

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

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.

(A) Owner of well. #503.36 a. 1.50. Street and Number #CX 210.9 City 142.00.2. State #10.20.0 City 142.00.2. State #10.20.0 Well was drilled under Permit No532.2. and is located in the #10.20.0 Well was drilled under Permit No532.2. and is located in the #10.20.0 Elevation 1. Trong J. #10.20.2. And the #10.20.0 City 160.00.2. Trong J. #10.20.0 Street and Number. #22.35 City 160.00.2. State #22.2. Street and Number. #22.35 Elevation at top of casing in feet above sea level _ink.em Depth in Feet Thickness in Total depth of well _52.2 Section 2	Section	1		(4) 0	ofoll	Torras	o. Too.			
City 130.50 State FORSE and is located in the 146 state of State Forse and is located in the 146 state of State Forse and is located in the 146 state of State Forse and State Forse State Forse State and Number. (B) Drilling Contractor. Street and Number. (City 100.50 State Forse No. 1729 State Forse No. 1729 State Forse State Port State Optiming was commenced. (B) Drilling was commenced										
Well was drilled under Permit No										
Property										
Street and Number	3	5 rt. 1	roa 3. 1							
Street and Number		180 64	from Res	(B) Drilli	ing Contra	actor 5	. S. Sunel	white Licer	se No. 1099	
Drilling was commenced		1 1	1 1	Street and	Number.		ox 56			
Clist of 640 acres Drilling was completed 33 n. 17, 19 55	#5	on Cap.	-2-147-6	City			Solibs	• State	en 'exico	
Elevation at top of casing in feet above sea levelNkewn	1			Drilling w	vas comm	enced	ans.	11.	1965	
Elevation at top of casing in feet above sea levelNkewn	L	(Blot of 640 p		Drilling w	as comple	eted	Jan.	17.	19.55	
State whether well is shallow or artesian Depth to water upon completion 52 PRINCIPAL WATER-BEARING STRATA No. Depth in Feet Trong To Section 2 PRINCIPAL WATER-BEARING STRATA Description of Water-Bearing Formation 1 105 155 50 35nd, gonsolidated, course 2 173 175 22 35nd 3 220 220 520 5 50 35nd, gonsolidated, course 2 173 175 20 50 35nd 3 220 520 520 5 50 35nd 5 5nd 5 5n	•									
PRINCIPAL WATER-BEARING STRATA No. Depth in Feet From TO Feet Feet Description of Water-Bearing Formation 1 105 155 50 1979, QOARDOL State Q. CONTSQ 2 1779 175 20 350.4 4 220 240 8 379 ACTOR STORE Section 3 RECORD OF CASING Dia Pounds In Threads in Top Bottom Feet Type Shoe From To 17 3/4 32.475 E 7 231 231 Cng 173-31 Section 4 RECORD OF MUDDING AND CEMENTING Depth in Feet Diameter From To Hole in in. Clay No. Sacks of Cement Methods Used Section 5 PLUGGING RECORD Section 5 PLUGGING RECORD Section 6 Plugging Contractor City State Pons of Clay used Tons of Roughage used Type of roughage Plugging method used Date Plugging method used 19 Cement Plugs were placed as follows: FOR USE OF STATE DESCRIPTION ONLY Date Received 173 0 MU 12 NW S981										
Depth in Feet Thickness in Description of Water-Bearing Formation			13 Bilailow				-	To apon compre	***	
No From To Feet Search Sear			Feet Th	ickness in		D-	resintian of Wester	- Possing Formatio		
2 173 175 20 20 20 20 13 220 20 20 13 220 20 20 20 20 20 20 20 20 20 20 20 20	No.			Feet		De	scription of wate.	r-bearing rormado		
2 179 175 20 20 20.nd 3 220 526 6 20nd a crevel Section 3 RECORD OF CASING Bettion 3 RECORD OF CASING Peet Type Shoe Perforations From To Solve Sacks of Cement RECORD OF MUDDING AND CEMENTING Peet Type Shoe Perforations From To Solve Sacks of Cement RECORD OF MUDDING AND CEMENTING Peet Type Shoe Perforations From To Solve Sacks of Cement RECORD OF MUDDING AND CEMENTING Peet Type Shoe Perforations From To Solve Sacks of Cement RECORD OF MUDDING AND CEMENTING Peet Type Shoe Perforations From To Hole in Clay No. Sacks of Cement Record Of Mudding Sacks of Cement Record Of Sacks Used No. Depth of Flug No. of Sacks Used No. Depth of Flug No. of Sacks Used No. Depth of Flug No. of Sacks Used	1	105	144	60	ibord -	nonani	ida te d, en	ersa		
Section 3 RECORD OF CASING Dia Pounds In Threads In Top Bottom Feet Type Shoe From To 10 3/4 32.75 E 7 231 231 Cne 173.231 Section 4 RECORD OF MUDDING AND CEMENTING Depth in Feet Diameter Tons No. Sacks of Cement Methods Used Section 5 PLUGGING RECORD Section 5 PLUGGING RECORD License No. 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: TOR USE OF STATE ENGINEER ONLY Date Received 172.18 WU 12 NUT \$961	2			7.1	_		-			
RECORD OF CASING Dia	3									
RECORD OF CASING Dia	4	20.0	84.0			· Pro se	*			
Dia Pounds in Threads In Top Bottom Feet Type Shoe From To 1 7 3/4 32 • 75 8 7 231 231 231 232 232 232 232 232 232 232	5									
Dia Pounds in Threads In Top Bottom Feet Type Shoe From To 1 7 3/4 32 • 75 8 7 231 231 231 232 232 232 232 232 232 232	~	<u></u>			D5000	0.00				
Section 4 RECORD OF MUDDING AND CEMENTING Depth in Feet Diameter Tons Clay No. Sacks of Cement Depth in Feet Diameter Tons Clay No. Sacks of Cement Depth in Feet Diameter Tons Clay No. Sacks of Cement Depth in Feet Diameter Tons Clay No. Sacks of Cement Depth in Feet Diameter Tons Clay No. Sacks of Cement Depth in Feet Diameter Tons Of Clay State Depth in Feet Diameter Tons Of Roughage used Tons of Clay State Depth in Feet Diameter Tons Of Roughage used Type of roughage Date Plugging Contractor Depth in Feet Diameter Tons Of Roughage used Type of roughage Date Plugging approved by: Depth of Plug were placed as follows: Depth of Plug were placed as follows: No. Depth of Plug No. of Sacks Used Date Received 12 8 MU 12 NW 5961			1	1		D OF CA	SING	l Post		
Section 4 RECORD OF MUDDING AND CEMENTING Depth in Feet Diameter Tons Clay No. Sacks of Cement Methods Used PLUGGING RECORD Name of Plugging Contractor License No. Street and Number City State Fons 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 No. of Sacks Used No. Depth of Plug No. of Sacks Used					Feet		Type Shoe			
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RECORD OF MUDDING AND CEMENTING Depth in Feet Diameter Tons No. Sacks of Cement Methods Used	1. 3/	1 36 6 7 3			No 2 de	1/1 Janie				
RECORD OF MUDDING AND CEMENTING Depth in Feet Diameter Tons No. Sacks of Cement Methods Used				T						
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City State Tons 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: Depth of Plug No. of Sacks Used From To No. of Sacks Used			, (1tt				7.7	Tieswas No		
Plugging method used										
Plugging method used Date Plugged 19 Plugging approved by: Cement Plugs were placed as follows: No. Depth of Plug No. of Sacks Used										
Plugging approved by: Cement Plugs were placed as follows: No. Depth of Plug No. of Sacks Used Por USE OF STATE ENGINEER ONLY JULIAN Sacks Used Date Received 72:8 WU 12 NUC \$961										
Pasin Supervisor FOR USE OF STATE ENGINEER ONLY Date Received 72:8 WU 12 NUC \$961		_								
Pasin Supervisor For USE OF STATE ENGINEER ONLY Date Received 12:8 WU 12 NUT \$961	Luggin	g approved	<i>D</i> J •			_			1020000	
Date Received \$72.8 WU IZ NUT \$961	_		A.Jry A.	Basin Sup	ervisor	No		No. of	Sacks Used	
Date Received 12 NUT S961		FOR TIEF	7°F 10	.: 'emagUN		7				
Date Received 12 NUT S961		FOR USE	NEEK DELIVI	1900 mm	0					
730/	Date	Received _t	1 2 :8 w	5						
			- TO MY	< NUC 596	31					
1 5200										
		1 0-				à	•	15 2//	>1 442 134	

LOG OF WELL

Depth i	n Feet	Thickness	Color	Two of Material Engagnered		
rom	То	in Feet	Color	Type of Material Encountered		
<u>a</u>	2	2	Black	coli & rock		
2	28	26	Whi te	Caliche & rock		
26	60	52	Grey	Sandy shale		
EO	85	5	4	Send rook		
85	140	55		Send		
40	155	15	**	Send rock		
55	165	10	te .	Sandy shale		
65	195	30	. #	Sand & sand rock		
95	220	25	कर	Sand rock		
220	228/	8	77	and & grovel		
28	231	3	Red	Red bed. shale		
				L S Elev 3988 / Depth to K Trc 228 / Elev of K Trc 3760 /		
				Loc. No. 17.311.36.443134* Hydro. Survey Field Check X		
				SOURCE OF ALTITUDE GIVEN		
				Interpolated from Topo. Sheet		
	,			Determined by Inst. Leveling		
				Other		
				11 47 13		

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.

1/2 Mussle

L-5288

17.34.36.443

(A) Owne Street City a	r of wellGe or Post Office Ad nd State	orge Ken _{Idress} PO Malja	emore Box 15 mar NM	+			Ow	ner's Well N	o. <u>RA</u>	8855
	lled under Permit				_ and is	located	in the:			
	E ¼ NW ¼							ange R	32 E	NMPW
	nct No							_		
	t Nobdivision, recorded									
	ng Contractor						_ License No	WD 12	35	
	Box 149									
Drilling Beg	an <u>7/28/94</u>	Com	pleted <u>8/</u>	+/94	_ Туре	tools	Cable	Size	of hole_	8½ in.
Elevation of	f land surface or			at we	ll is		_ ft. Total dep	th of well_		<u>158</u> ft.
Completed	wellis 🔀 si	hallow 🗀 a	artesian.		Depth	to water	upon completi	on of well _		<u> </u>
Den	th in Feet	Sec Thickness		CIPAL WATE	R-BEA	RING ST	RATA	F.	timated `	Vield
From	To	in Feet								ninute)
			No 1							
			thi	s well.						
			Section	a 3. RECORD	OF CA	SING		. •		
Diamete		Threads		in Feet	Le	ngth	Type of S	hoe	Perfor	
(inches)	1	per in.			tom (feet)				From	To
<u> </u>	No cag	was ran	in well	<u> </u>			<u> </u>		· · · · · · · · · · · · · · · · · · ·	
<u> </u>										
	····	Sect		RD OF MUDD					9	
From	th in Feet To	Hole Diameter	Sack of M		ubic Fe f Ceme		Met	hod of Plac	ement :	- ()
									10	
	<u> </u>									
								· · · · · · · · · · · · · · · · · · ·	ယ ကျ	3
L			1	1					<u>-</u> − − − − − − − − − − − − − − − − − − −	5
Mvi C-			Sectio	n 5. PLUGGIN	NG RE	CORD				, 37
Address	ontractor					No.	Depth	in Feet	Cu	bic Feet
	ethod					1	Тор	Bottom	of	Cement
Date Well P Plugging ap						2				
55 5 5		State Eng	gineer Repres	entative		<u>3</u>				
	Property.									
Date Receiv	ved August 10	0, 1994	FOR USE	OF STATE E	NGINE		Y FWL		FSI	:
	RA-88	55		D	omest	ic		17.32.10		
File No.	101 00.	 		Use			Location No			 /

Section 6. LOG OF HOLE

Depth	in Feet	Thickness	Section 6. LOG OF HOLE						
From	То	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	10	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 sandstone gravel.						
80	135	55	Red shale with mixture of multi-colored grave.						
135	157	22	Red colored shale with red, blue, and gray gravel						
157	158	1	Red bed						

Section 7. REMARKS AND ADDITIONAL INFORMATION

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 openment 12 foot 9 5/8 csg in top of well.

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. A possible when any well is drilled, repaired or de then this form is used as a plugging record, only Section 1(a) and Section 1 de be 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.

	I.		(A) Owne	er of well		mar Cooperat		
			Street and	Number	Room	00, Booker B	ldg.,	
							State N	
							.51 and	
							11 Twp. 17	
				_			Licens	
		i	1					
							State Ne	
	1 1		Drilling w	as comm	enced		Santanhan 10	19
(P	Plat of 640 a	cres)	Drilling w	as comple	eted		September 10,	19_4/
levation	n at top of	casing in	feet above se	a level		Total de	pth of well 140	ft.
							ter upon completi	
ection 2						RING STRATA	_	
- I	Depth in	Foot	Thickness in	CIPAL WA				
No.	From	To	Feet		De	escription of Water	r-Bearing Formation	
1								,
2						-/		
3								
4								
5								
ection 3	3			RECOR	D OF CA	SING		
Dia	Pounds	Thread	is Der	oth	Feet	Type Shoe	Perfora	tions
in.	ft.	in	Тор	Bottom	reet	Type Shoe	From	То
7			0	139	139			
		ļ				<u> </u>	3.0	
		1				1		
ection 4	1		RECOR	OF MUE	DING A	ND CEMENTING		
Depth	in Feet	Diamet	ter Tons	No. Sa	cks of			
From	To	Hole in	in. Clay	Cem	nent		Methods Used	
			-					•
	1			1	1			
ection 5				PILICO	SING REC	: :		
								
							License No.	
							State	
	-						pe of roughage	
							igged	
lugging	approved	by:					gs were placed as i	ollows:
			Basin Sup	ervisor	N	Depth of P	No. of S	Sacks Used
			Баяш Бир	of ATOM.	- 7 ├	121011		
	FOR USE	OF STAT	e engineer o	NLY	1	i		
				NLY				
Date 1			e engineer o	NLY	_			
Date 1				NLY				

Woll#7 Mal. 2-132-1

LOG OF WELL

				or Well
Depth From		Thickness in Feet	Color	Type of Material Encountered
4	To.	mi reet		
0	5			Top soil
5	22		white '	Packed sand
22	48		gray	Soft sand
48	93		red	Soft sand
93				Top of water sand
93	121			Coarse water sand
131/				Bottom of sand
131	140		red	Clay
140				Total depth.
				139' of 7! OB Lapwell pipe run, consisting
				of the last two joints perforated, which
			4142	amounted to 43'. Total water sand thickness
	L S Elev Depth	0 K	Trc_13/	38'. Hole was bailed in an effort to creat
	Elev of	K	Trc.#011	a crevice and remove as much sand as possil
		.32.1/.	231441	Well was gravel packed with 92 yards. It
		ع / / کسری :	(3///	hoped that more gravel can be placed between
Loc. N	n			casing and the outer wall after well has
Hydro.		Field Chec	k X	been pumped.
1190101	ourroy			It is estimated that the well is capable of
				producing 100 gallons per minute. This well
	001170			was completed on September 10, 1947. It was
	SOURCE OF		IVEN	drilled by Burke, Phone No. 90, Hobbs, N. h
Inte	rpolated from	Topo. Sheet	_X	draited by but he, FROME NO. 50, hopos, N. a
De	ermined by in	st. Leveling		
Oti	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.

Burke	
Well Di	iller

1-2-1-51

17.32.11.231

	Post Office Ac	ldress					ner's well No.		
ell was drilled	under Permit	No		and	is located i	n the:			
a	_ ¼ ½	4 ¼	4 of Section	То	wnship	R	lange	N.M.P.N	
b. Tract N	No	of Map No		of the					
							J		
d. X=	<u> </u>	_ feet, Y=	1						
								Grant	
			eted						
vation of lan	d surface or _			at well is		_ ft. Total dep	th of well	f1	
mpleted well	is s	hallow 🗆 ar	tesian.	Depth	to water i	ipon completi	on of well	f	
		Secti	on 2. PRINCIPAL	WATER-BEA	RING ST	RATA			
Depth i		Thickness in Feet	Descript	ion of Water-	Bearing Fo	ormation		mated Yield is per minute)	
From .	То	11.000					(82.0)	por mana	
			-						
				·		_			
						·	<u> </u>		
							_1		
Diameter	Pounds	Threads	Section 3. RE Depth in Feet		ength			Perforations	
(inches)	per foot	per in.		Bottom (feet) Type of Sh			Shoe From To		
							ŀ		
		<u> </u>							
		Sectio	n 4. RECORD OF	MUDDING A	ND CEME	ENTING			
Depth i	in Feet To	Hole Diameter	Sacks of Mud	Cubic F of Cem		Met	thod of Place	ment	
PTOM	10	- Diamotor	0, 1,4,40						
		-							
		 _		-L	-			-71-71	
			Section 5. PL	UGGING RE	CORD				
						Danah	in Cont	I Cally Fred	
					No.	Тор	in Feet Bottom	Cubic Feet of Cement	
te Well Plugg	ged				1				
agging approv	ved by:				$\frac{2}{3}$				
	,	State Engi	ncer Representative		4				
			FOR VIET OF ST	ATE ENGIN	CED ONLY	,			
ate Received	Typed	5/11/78	FOR USE OF STA	ALE ENGIN	ERK UNL)				
				Quad		FWL		_ FSL	
File No			Use	011		ocation No.	17.32.26.4	1000	
File No			Use .		I	Location No.			

Section 6. LOG OF HOLE

			Section 6. LOG OF HOLE
Depth From	in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	15		Caliche
15	80	Andrews of the state of the sta	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 Elev3936
			Depth to KTrc_/3 Elev of KTrc 39.2/
<u>.</u> .			

Section 7. REMARKS AND ADDITIONAL INFORMATION

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

Location: 17.32.26.41000 Owner: Continental Oil Co.

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	

Elevation: 3936' DF

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

Revised June 1972

STATE ENGINEER OFFICE WELL RECORD

City and S	Post Office Ad	CO2 INC.	700 Ker	mit Hwy	4				
•					_ and is located i				
			IW_ ¼ of Se	ction 28	Township	175 · R	ange3	2E	N.M.P.M.
in Le b. Tract?	ea County	. of Map No.		of the					
	rision, recorded				County.				
		. feet, Y=		feet, N	.M. Coordinate S				Zone in Grant.
B) Drilling C	ontractor	Alan Ead	es			_ License No	WD 10	44	
ddress12	200 E. Be	nder Bly	d., Hob	obs, NM 8	38240				
rilling Began _	2-4-02	Comp	leted2-	-4-02	_ Type tools	rotary	Size	e of hole Z	<u>7/8</u> in.
levation of lan	d sufface or _			at we	u is	_ ft. Total dept	th of well.	158	ft.
ompleted well	is KX sh	allow 🗀 a	tesian.		Depth to water	upon completic	on of well		ft.
				CIPAL WATE	R BEARING ST	•			
Depth i	n Feet	Thickness			Water-Bearing Fe			estimated '	
From	То	in Feet		Description of	werel-nearing L	Ormation .	(ga	llons per n	ninule)
87	89	2	Sand	& Grave	1		-		
89 ·	116	27	Sand	y yellow	& blue C	lay			
116	124	8	Hard	gray sh	ale				
	,		Section	n 3. RECORD	OF CASING	<u> </u>			
Diameter	Pounds per foot	Threads	Depth Top	in Feet Bottom	Length (feet)	Type of St	hoe	Perfor From	ations To
(inches)					158			118	158
	160	l l			1120 1			110	
5 3/4	160psi				1				1
	160psi					,			
	160psi	Saatio	- 4 BECON	D OF WILD	INC. AND CENT	SATURE .			
5 3/4 Depth i	n Feet	Hole	Sack	s C	ING AND CEMI		hod of Pla		
5 3/4				s C			hod of Pla		
5 3/4 Depth i	n Feet	Hole	Sack	s C	ubic Feet	Мец	hod of Pla	acement	
5 3/4 Depth i	n Feet	Hole	Sack	s C	ubic Feet	Мец	hod of Pla	acement	
5 3/4 Depth i	n Feet	Hole	Sack	s C	ubic Feet	Мец	hod of Pla	acement	
5 3/4 Depth i	n Feet	Hole	Sack of Mu	is Cud o	ubic Feet f Cement	Мец	hod of Pla	acement	
Depth i	n Feet To	Hole Diameter	Sack of Mu	s C	ubic Feet f Cement	Мец	hod of Pla	acement	
Depth in From	n Feet To	Hole	Sack of Mu	is Cud o	ubic Feet f Cement	Metl	n Feet	acement .	bic Feet
Depth i From Ungging Contraddress Ungging Method Ite Well Plugge	n Feet To ctor	Hole Diameter	Sack of Mu	is Cud o	dic Feet (Cement	Depth i		acement .	
Depth i	n Feet To ctor	Hole Diameter	Sack of Mu	is Cud o	G RECORD	Metl	n Feet	acement .	bic Feet

		-	
Death	- C		CONTRACTOR OF THE PARTY OF THE
From	in Feet To	Thickness in 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
-			
		/	
	:		
	·		*

Section 7. REMARKS AND ADDITIONAL INFORMATION

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

andrea Host

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.

I was drilled	under Permit	. No			and is located	in the		
					-	Ran	-	
b. Tract N	No	of Map No.		ot t	he			
		of Block No						
	-					System		7оле
the						7) 31013		Gran
Drilling C	ontractor		·			_ License No		
Iress				······································				
lling Began _		Comp	leted		Type tools		Size of	holei
vation of lan	d surface or _			at w	ell is	_ ft. Total depth	of well	
npleted well	is 🗆 s	hallow 🗆 a	tesian.		Depth to water	upon completion	of well	1
		Sect	ion 2. PRIN	CIPAL WAT	ER-BEARING ST	RATA		
Depth i		Thickness in Feet	1	Description o	f Water-Bearing F	ormation		nated Yield s per minute)
From	То	ni rect		•			(gairons	s per minate)
				-				
ļ								
1		1						
Diameter	Pounds	Threads		in Feet	D OF CASING Length	T f. Cl		Perforations
(inches)	per foot	per in.	Тор	Bottom	(fcet)	Type of Sho	Fr	om To
				-				
	·	Section	n 4 PECOI	PD OF MUD	DING AND CEM	ENTING	L	
Depth i		Hole	Sack	cs (Cubic Feet		d of Placem	ent
From	То	Diameter	of M	ud	of Cement			
		<u> </u>						
			Sectio	n 5. PLUGGI	ING RECORD			
gging Contra	ctor							
dress					No.	Depth in l		Cubic Feet
						Тор	Bottom	of Cement
gging approv					2			
		State Engi	ncer Represe	entative	3			
			Pop	OF 07 :	ENGINEER ONL			

Section	6	LOG	OF	HOI	Æ

			Section 6. LOG OF HOLE
	in Feet	Thickness in Feet	Color and Type of Material Encountered
From	То	in Feet	Color and Type of Material Encountered
0	70		Surface sand
70	190		Red bed
			-
			L S Elev
	<u> </u>		Depth to KTrc
			L S Elev
-			
-			
		<u></u>	

Section 7. REMARKS AND ADDITIONAL INFORMATION

This	well	record	is	an	evement	from	011	Conservation	Commission	f11ec	at	Hobbe	N M
THTO	MCTT	record	TO	au	GYCGIAL	TIOM	OTT	COMPETANTION	COMMITSSION	TITER	aL	nonns.	M . FI .

Location: 17.32.29.11000

Elevation: 3937' GR

Owner: Continental Oil Co.

MCA Unit Battery 2 #109

Record of Casing: 8" - 873'

Cable

....

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

was drilled	under Permit	No			a	nd is located i	n the:		
a	. ¼ 1	4 ½ <u></u>	¼ of Se	ction		Township	Rang	ge	N,M,P,M
b. Tract N	lo	of Map No.	··-	c	of the _				
		of Block No d in							
		feet, Y=					ystem		
	ontractor						License No		
ing Began _		Comp	eted		т	ype tools		Size of I	nolein
ition of lan	d surface or _			a	ıt well is		ft. Total depth	of well	ft
plete d w ell	is 🗆 s	hallow 🗀 ar	tesian.		De	pth to water i	upon completion	of well	ft
Depth is	n Faat		ion 2. PRIN	CIPAL W	ATER-B	EARING STI	RATA	Fetim	ated Yield
From	То	Thickness in Feet	1	Descriptio	n of Wa	ter-Bearing Fo	ormation		per minute)
-								<u> </u>	
				··					
Diameter	Pounds	Threads		in Feet	ORD OF	Length			Perforations
(inches)	per foot	per in.	Тор	Botto	m	(feet)	Type of Shoo	Fre	om To
			· · · · · · · · · · · · · · · · · · ·						
	- · · · · ·		<u></u> -						
		T				G AND CEME	ENTING		
Depth i	n Feet To	Hole Diameter	Sacl of M			c Feet ement	Metho	d of Placem	ent
	<u> </u>								
	<u> </u>						·	· · · · · · · · · · · · · · · · · · ·	
1				l					
ging Contra	ctor		Section	on 5, PL U	JGING	RECORD			
ress						No.	Depth in I	Feet Bottom	Cubic Feet of Cement
e Well Plugg ging approv						<u>1</u>			
ging approv	———	State Engi	ncer Repres	entative		$-\begin{array}{ c c c c c c c c c c c c c c c c c c c$			
			EOR USE	OF STAT	TE ENG	INEER ONLY			

Section	-		\sim	_	\sim	ь.	ŦΤ	\sim r	177
Section	h	1	(P	l ÷	()	-	н	(11	н

			Section 6. LOG OF HOLE
Depth i	n Feet	Thickness	
From	То	in Feet	Color and Type of Material Encountered
0	85		Surface sand and caliche
85	105		Sandstone
105	755	,	Shale
			1.S.Flev 3984
			Depth to KTrc_103
			L S Elev 3984 Depth to K Trc 103 Elev of K Trc 3879
		_	
-			
-			
		,	

This	well	record	is	an	excerpt	from O11	Conservation	Commission	files	at	Hobbs.	N.M.
------	------	--------	----	----	---------	----------	--------------	------------	-------	----	--------	------

Location: 17.32.29.24000

Elevation: 3984' DF

Owner: Continental Oil Co.

MCA Unit Battery 2 #154

Record of Casing: 8" - 860'

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 the appropriate district office of the State Engineer. A colons, except Section 5, shall be answered as completely and accurate possible when any well is drilled, repaired or deepener when this form is used as a plugging record, only Section 1(a) and Section need be completed.

Street or	Post Office Add	iress				Owner'	s Well No.	
ell was drilled	d under Permit N	No			and is located	in the:		
a	¼ ¼ .	1/4	¼ of Sect	ion	Township	Rang	e	N.M.P.M
b. Tract	No	_ of Map No		of the	:			
	oc vision, recorded							
d. X=	 	feet, Y=		feet, N.	M. Coordinate S	System		Zone ii Grant
						_ License No		
dress				<u> </u>		·		
							Size of hol	e in
evation of la	nd surface or	···		at wel	ll is	_ ft. Total depth o	of well	ft
mpleted wel	. —	allow 🗀 ar				upon completion (
		Secti	ion 2. PRINC	IPAL WATE	R-BEARING ST	RATA		
Depth From	in Feet To	Thickness in Feet	De	escription of	Water-Bearing F	ormation		ed Yield er minute)
		·			· · · · · · · · · · · · · · · · · · ·			
								
<u></u>	1		Saction	3 PECOPO	OF CASING			
Diameter	Pounds	Threads	Depth ir		Length	Type of Shoe	Pe	rforations
(inches)	per foot	per in.	Тор	Bottom	(feet)	.,,,	From	То
		-	:	<u></u>				-
					ļ <u>.</u>	<u> </u>		
		Section	n 4. RECOR.	D OF MUDD	ING AND CEM	ENTING		
Depth From	in Feet To	Hole Diameter	Sacks of Muc		ubic Feet f Cement	Method	of Placemen	t
-								
<u> </u>	<u> </u>							71 TO A 1
							· · · · · · · · · · · · · · · · · · ·	
	<u> </u>							
			Section	5. PLUGGIN	ig r ecord			
ugging Conti	ractor			· · · · · · · · · · · · · · · · · · ·		The state in E		0 11 B 1
	odb				No.	Depth in F Top	Bottom	Cubic Feet of Cement
ite Well Plug ugging appro								
	411	State Engi	neer Represer	ntative	3 4			
						v		
ate Received	Typed	5/11/78	FUR USE C		NGINEER ONL			
				•		FWL		
File No				_ Use011		Location No. 17	.32.29.32	000

Section	κī	വ	OF.	HOL	F

Section 6. LOG OF HOLE Depth in Feet Thickness Control of the Con						
From	To	Thickness in Feet	Color and Type of Material Encountered			
0	55		Sand and caliche			
55	350		Red mud			
350	470		Red shale			
	V					
			L S Elev			
			Depth to KTrc35 Elev of KTrc_387.8			
		_				
•						

ጥኬፈራ	11		4 -			£ 041	C	C	£41		17-1-1	NT NC
THIE	METT	record	TR	an	excerpt	TLOM OTT	Conservation	COMMISSION	Illes	at	HODDS.	N.M.

Location: 17.32.29.32000 Elevation: --- 3933
Owner: Continental Oil Co.

MCA Unit Battery 2 #170 Record of Casing: 8" - 990'

Cable

1980' FSL - 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

a ¼ b. Tract No c. Lot No						
b. Tract No	1/ 1/		and is located i	n the:		
c. Lot No	74 74	¼ of Section	Township	Range	e	N.M.P.N
	of Map No		of the			
			of the			
,		·· <u> </u>				
d. X=			eet, N.M. Coordinate S			
Drilling Contract	or			License No		
Jress						
lling Began	Com	pleted	Type tools	·	Size of ho	ole i
vation of land surfac	ce or		at well is	ft. Total depth o	f well	f
mpleted well is	shallow .	artesian.	Depth to water	apon completion o	f well	f
D 0 : E :			WATER-BEARING ST	RATA		
Depth in Feet From To	Thickness in Feet	Descript	ion of Water-Bearing Fo	ormation		ted Yield per minute)
						
Diameter Pou	nds Threads	Section 3, RE Depth in Feet	CORD OF CASING Length	m 5 m	Pe	erforations
(inches) per f	oot per in.	Top Bot	(4 -()	Type of Shoe	From	n To
	Sect	ion 4. RECORD OF	MUDDING AND CEMI	ENTING		
Depth in Feet From T	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method	of Placemen	nt
170111 1	0				<u>i</u>	
			+	·		
1						
	_					
		Section 5. PL	UGGING RECORD			
				D. H C		
			No.	Depth in F	Bottom	Cubic Feet of Cement
te Well Plugged			<u> </u>			
gging approved by:			$\frac{2}{3}$			
	State En	gincer Representative				
	-11	FOR USE OF STA	ATE ENGINEER ONLY	· · · · · · · · · · · · · · · · · · ·		
te Received Typ	ed 5/11/78		Quad 107.1.0	FWL		FSL
***		Use _	011	ocation No. 17.	32,29,33	000

Section	6	T	റവ	OE	u_{Ω}	- 12

	Section 6. LOG OF HOLE							
Depth	in Feet	Thickness	Color and Trans of Material Engage					
From	То	in Feet	Color and Type of Material Encountered					
0	45		Sand and caliche					
45	85 (W. M. C. T.	Red sand					
85	125		Caliche					
125	400		Red bed					
		·	•					
			1 S Flev 39/9					
-			L S Elev					
			CIGY OF REMARKS					
-								

	il Conservation Commission files at Hobbs, N.M.
Location: 17.32.29.33000 Owner: Continental 0il Co. 2/4 MCA Unit Battery 2 #124 Record of Casing: 8" - 1050'	Elevation: 4091' DF OK Topo. Elev. 3909 DF Elev. 3919
Cable	Dir. agreen to be 277 Gine
660' FSL - 660' FWL OK	

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
. 11.3	

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

Street or	Post Office Ad	idress		Owner	's Well No			
ell was drilled	under Permit	No			and is located	in the:		
a	_ ¼ ¼	44	¼ of Se	ction	Township	Rang	ge	N.M.P.N
b. Tract	No	of Map No.		of the				
		of Block No						
d ¥≡ ·		feet V=		feat N I	M. Coordinate S	ystem		Zone i
				1001, 11.		J stelli		
B) Drilling C	ontractor					_ License No		
ddress								LEC 2007
rilling Began .		Comp	oleted		Type tools		Size of h	olein
levation of lar	nd surface or _			at well	is	_ ft. Total depth of	of well	f1
	_	_		-				
ompleted well	ا\$ لــا \$1	hallow 🗔 a	rtesian.	ı	Depth to water	upon completion	of well	II
Dunth	in Foot	Sect Thickness	tion 2. PRIN	CIPAL WATER	-BEARING ST	RATA	Eatin	ated Yield
Depth :	To	in Feet	ı	Description of V	Vater-Bearing Fo	ormation		per minute)
			-		· · · · · · · · · · · · · · · · · · ·			
								
المنتصحيت المستنال			Section	n 3. RECORD	OF CASING			
Diameter	Pounds	Threads		in Feet	Length	T	I	Perforations
(inches)	per foot	per in.	Тор	Bottom	(feet)	Type of Shoe	Fro	то То
			•					
					<u> </u>			
Depth	in Feet	Section Hole	on 4. RECOI	——————	NG AND CEMP	ENTING		
From	То	Diameter	of Mi		Coment	Method	d of Placeme	nt
						·		
			-				- 	
		<u>L.</u>	<u></u>			· · · · · · · · · · · · · · · · · · ·		
			Sectio	n 5. PLUGGIN	G RECORD			
ugging Contra	actor							
					No.	Depth in F		Cubic Feet of Cement
ugging Metho ate Well Plugg	-					Top	Bottom	or Centent
ugging appro	ved by:				2			
		State Eng	ineer Represe	ntative	3			
			FOR VIEW	OF 07 17 17 17 17 17 17 17 17 17 17 17 17 17		,		7
ate Received	Typed :	5/11/78	FOR USE	OF STATE EN	GINEER ONLY			
				Quad.		FWL		FSL
Date Received	typed :)(TT)(0		Quad.			22 20 1	

Section 6	TOCOL	HOLE
Section 6	1.00 - 01	ниль

	. ,		Section 6. LOG OF HOLE
Depth	in Feet	Thickness	Color of Transit Maria I Francisco
From	То	Thickness in Feet	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
			Depth to KTrc
			Elev of KTrc_38'45
	<u></u>		
	1	J	

Th is	well	record	ís	an	excerpt	from	011	Conservation	Commission	files	at	Hobbs,	, N.M	ſ.
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Location: 17.32.30.13000 Owner: Continental Oil Co.

MCA Unit Battery 1 #163

Record of Casing: 8"

- 870'

Cable

1980' 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: 3895' DF

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

		ddress			1		Own	er's Well No.		
City and	State									
ll was drille	d under Permi	t No			a	nd is located	in the:			
a	¼ :	¼¥ <u></u>	¼ of Se	ection		Township	Ra	nge	N	.M.P.1
b. Tract	No	of Map No.			of the					
Subdi	vision, recorde	ed in			Cou	nty.				
		feet, Y=		fe	et, N.M.		ystem			
Drilling (Contractor						_ License No			
dress										
lling Began		Comp	oleted		Т	ype tools		Size of	hole	ir
							_ ft. Total depth			
							_			
npleted wel	lis 🗀 s	shallow 🗀 a	rtesian.		De	pth to water 1	upon completion	n of well		fi
D 11	/ F		tion 2. PRIN	CIPAL W	ATER-B	EARING ST	RATA			
From	in Feet	Thickness in Feet] 1	Descriptio	n of Wat	ter-Bearing Fo	ormation		nated Yield sperminut	
Trom	10									
· · · · · · · · · · · · · · · · · · ·										
			_							
								<u></u>		
			Sectio	n 3. REC	ORD OF	CASING				
Diameter	Pounds	Threads	Depth	in Feet		Length	Type of Sh	oe	Perforation	15
(inches)	per foot	per in.	Тор	Botto	m	(feet)	-77	Fr	om	To
						İ		1		
-										
Depth	in Feet	Hole	on 4. RECO			Feet				
From	То	Diameter	of M			ment	Meth	od of Placen	ient	
	· · · · · · · · · · · · · · · · · · ·		1							
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	+	·							
			Sectio	n 5. PLU	GGING I	RECORD				
_	actor					_				
lress	nd					- No	Depth in		Cubic F	
e Well Plug						_	Тор	Bottom	Or Cent	CIII
gging appro	ved by:					2				
		State Engi	neer Represe	entative		- 3				
4						***				
e Received	Typed	5/11/78	FOR USE	OF STAT	E ENGI	NEER ONLY	•			
. Vereinen	-7 200	-,, , •		(Quad		FWL .		FSL	
ile No.				Use	011	1.	ocation No. 1	7.32.30.	22000	

			Section 6. LOG OF HOLE
	in Feet	Thickness	Color and Type of Material Encountered
From	То	in Feet	
0	50		Surface sand and caliche
50	545		Red bed and red rock
545	590	: .	Red bed, sandy
	1		
			L S Elev 387/
			L S Elev 387/ Depth to KTrc50 Elev of KTrc382/
	,		
			·

This we	ell 1	record	is an	excerpt	from Oil	Conservation	Commission	files	at	Hobbs.	N.M.
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Location: 17.32.30.33000 Owner: Continental Oil Co. 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	

Elevation: 3871' DF

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

) Owner of	well	ddress				Owner Owner	's Well No	
	tate							
l was drilled	under Permit	No			and is located	in the:		
a	_ ¼ ;	/4 ½	¼ of Secti	on	Township	Ran	ge	N.M.P.
b. Tract N	lo	of Map No.		of the			-	
		of Block No				-,		
d. X=		feet. Y=		teet. N.	M. Coordinate	System		Zone
						License No		
ress				· ·	- :	<u></u>		
ling Began _		Compl	eted		Type tools		Size of I	olei
vation of lan	d surface or _			at wel	l is	ft. Total depth	of well	
npleted well	is 🗆 s	shallow 🗆 ar	tesian.		Depth to water	upon completion	of well	
		Secti	ion 2. PRINCI	PAL WATER	R-BEARING ST	ГКАТА		
	n Feet	Thickness in Feet	Des	scription of V	Water-Bearing F	Formation		ated Yield per minute)
From	То							
								<u></u>
		 	-	<u>.</u> .	· · · · · · · · · · · · · · · · · · ·			
			*					
			Section 3	3. RECORD	OF CASING			
Diameter	Pounds	Threads	Depth in		Length (feet)	Type of Sho	e 	Perforations
(inches)	per foot	per in.	Тор	Bottom	(leet)		Ere	om To
				<u> </u>				
-						ļ		
		1			ING AND CEM	IENTING		
Depth i	To	Hole Diameter	Sacks of Mud		ibic Feet Cement	Metho	od of Placem	ent
				-			 	
1		<u></u>	<u> </u>		L:			
			Section	5. PLUGGIN	G RECORD			
gging Contra dress	ctor					Depth in	Feet	Cubic Feet
gging Metho	d				No.	Тор	Bottom	of Cement
te Well Plugg gging approv	eded by:		-		2			
		State Engi	ncer Represent	tative	3			
V-V		· · · · · · · · · · · · · · · · · · ·		·		<u> </u>		
ate Received	Typed	5/11/78	FOR USE O		IGINEER ONL	.Y FWL _		FSL
File No		ر المالية الم المالية المالية المالي		Use 011		Location No. 1	7.32.34.	241111
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Section	_	100	OF	TTOI	12
Section	n	1.000	()F	нол	. г.

		T	Section 6, LOG OF HOLE
	in Feet	Thickness in Feet	Color and Type of Material Encountered
From	То	III 1.cct	
0	64		Sand and caliche
64	82		Red bed
82	792		Sand, red, and shale
			L S Elev
			Depth to K Trc 3898
· · · · · ·			
			A CONTRACTOR OF THE CONTRACTOR

This	well	record	is	an	excerpt	from	011	Conservation	Commission	files	at	Hobbs.	N.M	Ι.
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Location: 17.32.34.241111 Owner: Continental Oil Co.

Elevation: 3952' Sea Level

Pearsall BX #2

Record of Casing: 8 5/8"

5 1/2" - 3515'

Rotary

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

SECTION _____

TOWNSHIP 17S

RANGE 33E

#### 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	WARTO	DRILLING	COMPANY	
			Street and	l Number.	Box 28	107	·	%÷.
							State	axas
<u> </u>							and	
ł			1/4	SS_4/	N.5 14	of Section	Twp.17 3	Rge. 33 E
<b>-</b>		<del>-  </del>	— (B) Drill	ing Contr	actorAbl	ott Brothe	Licens	e No. 110-46
-								
			City		Hol	bs	State Ke	w Moxico
							ecesber 19	
L			Drilling v	vas compl	eted	<u>i</u>	lecember IN	19.57
Elevatio		casing in					oth of well 15	
Section		. 15 5111111				NG STRATA		
	Depth in	Feet	Thickness in	<u> </u>	Des	cription of Water	-Bearing Formation	
No.	From	То	Feet					
1	150	180	30	water	sand			
2			<del>*************************************</del>					
3					<u> </u>			
4								
5							· · · · · · · · · · · · · · · · · · ·	
Section	3	<del></del>			RD OF CAS	ING		
Dia in.	Pounds ft.	Thread in	Top	pth Bottom	Feet	Type Shoe	Perfora From	To
7	18	3.	0 0	180	180	plain	150	160
			•					
Section	4		RECOR	D OF MU	DDING AN	D CEMENTING		
	h in Feet	Diamet			acks of			<u> </u>
From	To	Hole in		1	nent		Methods Used	
		<del> </del>		<del>-  </del>				
		ļ .				•		
		T						
-								
Section					SING RECO			
							License No	
							State	
	-						e of roughage	
	_						gged	
luggin	g approved	by:				Cement Plug	s were placed as	foliows:
		1			No.	Depth of Pl	No. of	Sacks Used
		1 787	Basin Su		<b></b>	From T	o -	
-						1 1	ì	i
<del></del>	FOR USE	OF STAT	E ENGINEER C	1				
-		OF STAT		1				
Date	FOR USE	OF STAT	E ENGINEER C	1				
Date		OF STATE	EC 30 195	7 TPVISOR				

Depth	in Feet	Thickness	1	
From	То	in Feet	Color	Type of Material Encountered
_0	1	1		soil
1	20	19		caliche
20	150	130		dry sand
150	160	30		water sand
-				
			:	
				<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

### Form WR-23 Origina 5.5

#### 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	De	over Drillin	o Country	,	
							× 669			
1	i [									
-							nit No. 1-378			
			- 1				4 of Section			
	,		•		_	-	yton Drillin	-		101 804 70
1			: [s	Street and	Number_	Box	× 1021			
1	<del></del>			•	_		14. **			
1, 1	1						Feb.			
(P	lat of 640 :			Drilling wa	as comple	ted	Feb	8		19 50
•			n fee	+ shove sea	· level		Total de	enth of well	1 383	<u> </u>
	-						Depth to wa			
Section 2		11 20	J.,				ING STRATA			
	Depth is	in Feet	Thi	ickness in	Mr			Towns F		
No	From	To		Feet			escription of Wate	r-Bearms	rmation	
1	151	170		19	Tate	er Sand				· · · · · · · · · · · · · · · · · · ·
2	176	183	7			er Sand				-
3										
4										
5			_							
Section 3	3				RECOR	RD OF CAS	SING			
Dia	Pounds	Threa	ads	Dept		Feet	Type Shoe		Perforation	
in.	ft.	in		Top	Bottom	Pecu	Туре опо-	From		То
6 5/8	17	10	<u>.                                    </u>	. 0	183	184	None	11,0		183
	<del> </del>		!			<b></b>				<del></del>
	<del> </del>			<del> </del>			1	-		· · · · · · · · · · · · · · · · · · ·
				<u>1.                                      </u>		1	1	1	1 2	
Section 4	. :	·		RECORE	OF MUC	DING AN	ND CEMENTING		+ + + + + + + + + + + + + + + + + + + +	· · · · · · · · · · · · · · · · · · ·
	in Feet	Diame		Tons	No. Sac	1		Methods I	TTeed	
From	То	Hole in	ı in.	Clay	Cem					
18	183		لــــــــــــــــــــــــــــــــــــــ	1,00 3bs			Dry Nix - He	le Gravel	Packed	· · · · · · · · · · · · · · · · · · ·
				<del> </del>			<u> </u>	. 4,4		
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	<u> </u>	<u> </u>		<u>!</u>	<u> </u>	1	<del></del>			
Section 5						SING REC				
							***************************************			
						_				
	=						Ту	_		
							Date Ph			
Plugging	approved	1 by:					Cement Plu		ced as for	lows:
				Com		No.	Depth of P		No. of Sac	rks Used
		<del>-    </del>	11	Basin Supe		<b>-</b>	From	То		-
1	FOR US	e of stat	ie en	CINEER ON	HEAV Y	.1  -	<del></del>		· · · · · · · · · · · · · · · · · · ·	
1,	٠	IF	FFB	2 0 1958	$\cup$ / $\setminus$	$\dashv F$	1 1			
Date n	Received	1		1	K W	1  -				
İ		GROU		DEFICE VATER SUPTON	VISOT					
1				I, NEW MICCO		ļ				<del></del>
File No.	1-378	12			Use O.	ع بع	Locatio	on No. 12.	<u> 33. 2</u> .	444
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#### **FOR OL METT**

Depth in Feet From To		Thickness in Feet Color		Type of Material Encountered				
	<del>                                     </del>							
-0	1	11		Soil				
_1	4	3		Rock				
4	12	8		Calions				
75	18	6		Benlder				
18	26	8		Calidia				
26	80	5).		Sandy Clay				
80	151	71		Dry Sand				
151	170	21		Water Sand				
170	276	. 6		Sendy Clay				
176	183	7		Water Sand				
		1848 (17 1848 (1848)						
			1 2					
	1.7							
			¥1 - 1 <b></b>					
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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.

CATTON WATER WELL DRILLING COMPANY

Stady Backus





(A) Owner of	wellYa	tes Petro	oleum 5 Couth	7.+% 0	· '+ moot		Owner	r's Well No	<u> </u>	
. Street or l	Post Office A	ddress <u>10</u> Artesia	Journ	rico 8	8210		<del></del>	<del></del>		<del></del>
•										
ll was drilled	under Permit	NoL-10	J		and	l is located	in the:			
	_ ¼ ;	SE 4	SE 14 of Se	ection2	ТТ	ownship	17-S. Ran	ge <u>33-</u>	EN	M.P.N
			-			_				
b. Tract l	No	of Map No	)	o	f the	<del> </del>			······································	
c. Lot No	)	of Block No.		o	f the					
Subdiv	ision, recorde	od in			Count	у.				
d. X=		feet, Y=		fee	t, N.M. C	oordinate	System			Zone i
the										Gran
Drilling C	ontractor	Glenn's	s Water	Well S	ervic	e, Inc	License No	WD	421	
		692 Tatur								
illing Began .	7-7-94	Con	pleted	7 <b>-</b> 7-9	4 Ty	pe tools	rotary	Size of h	ole 14	3/4
tian af lan	d musface on			20	wall is		_ ft. Total depth	of well 2	73	6
.vation or san	u sullace of -									
mpleted well	is 🖾 s	thallow 🗆	artesian.		Dep	th to water	upon completion	of well	68	f
		Se	ction 2. PRIN	ICIPAL WA	TER-BE	ARING ST	'RATA			
Depth i	n Feet	Thicknes		Description	of Wate	- Dessina E	o-mation		ated Yield	
From	To	in Feet		Description	TOI WATE	1-Dearing 1	Officialion	(gallons per minute)		
168	268	100		sand			_		120	
				•						
		<del> </del>								
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<u> </u>	D	1 1		n 3. RECO					Perforatio	
Diameter (inches)	Pounds per foot	Threads per in.	Тор	in Feet Botton		Length (feet)	Type of Shoe		m	To
0.570	250				_	0.57				
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Depth i	n Feet	Hole	ion 4. RECO Saci		Cubic				·.	
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			Sectio	n 5. PLUG	GING RI	CORD				
gging Contra		<del> ,</del>					·	·····		
gging Method						No.	Depth in I	Bottom	Cubic l	
te Well Plugge	d						100	Dottom	or cen	iont_
gging approve	ed by:					2				
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e Received	07/13/94		FOR USE	OF STATE	ENGIN	EER ONL	(			
				Qι	uad		FWL	<del></del>	FSL	
File NoL	-10,212	è		sec oil	ondary -water	flood,	ry of 17S	.33.2.44	423	•
140h	100616			Use		I	ocation No.			

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

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 possible when any well is of the State Engineer. All ons, except Section 5, shall be answered as completely and accurate drilled, repaired or deepen en this form is used as a plugging record, only Section 1(a) and Section

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.

			- (n, Own	er or well	CARP	en dailling	COMPANY		
	0		Street an	d Number.	200	arper Bull	ding		
			City		Arte	Permit Noand is located in			
			<del>zj</del> _ y	*** ¹ /4	·	of Section	Twp##	Rge.	
	•							nse No. W.	
						) . Non 306			
								en Hertoe	
			Drilling	was comm	enced	July	-11	19	
(1	Plat of 640	acres)	— Drilling v	vas comple	eted		July 22	19_6	
vatio	n at top o	f casing in	n feet above se	a level		Total der	th of well	4	
		-						tion <b>162</b>	
		- 10 0114110					or upon compa		
tion 2	2 - <del></del>		PRIN	CIPAL W	ATER-BEAR	ING STRATA			
۱o.	Depth is		Thickness in Feet		De	scription of Water	-Bearing Formatio	n	
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tion	3	<del></del>		RECOR	D OF CAS	SING			
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tion 4	<b>.</b>		RECOR	D OF MU	DING AN	D CEMENTING			
Depth	in Feet	Diamet	ter Tons	No. Ba	aks of		15-41- 3- TV A		
	To	Hole in	in. Clay	Cen	nent		Methods Used		
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				PHICA	LING PECO	OPD.			
tion 5		Contract			SING RECO		Tions No.		
tion 5	Plugging						License No		
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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.

Elway B



### WELL RECORD

· · · · ·	T					Lomax Oril	ling Co	<u> </u>	
ł			4	t and Number				Mare 1	davica
				***************************************		Robbs	S	tate New 1	MEALCO
					1/4	of Section	Twp.	4/3 F	₹ge. 🛂 🍒
	1 1					ton & Port	or	_ License N	10. ND-183
			Stree	t and Number	8	ox 1021		kt-s- 1	
						Lovingto			
			Drilli	ing was comm	enced			Nov.	
(	Plat of 640 a	cres)	— Drilli	ing was compl	eted			13GA P	19 22
levatio	n at top of	casing i	n feet abo	ve sea level		Total de	pth of we	11	210
						Depth to wa			155
ction	2			PRINCIPAL W	ATED READ	ING STRATA	9-3		
CUOIL	Depth in	Foot	Thickness						
No.	From To					scription of Wate	r-Bearing F	ormation	
1	186	198	12	Water	" Sand			· · ·	
2									
3									
4									
5									
ction	3			RECOI	RD OF CAS	ING			
Dia	Pounds	Threa	ds	Depth	1	l	1	Perforation	)s
in.	ft.	in			Feet	Type Shoe	Fron		To
7	18	25	) 0	210	210	none	160	;	510
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ction	4		RE	CORD OF MU	DDING AN	D CEMENTING			
	h in Feet	Diame Hole in			ncks of		Methods	Used	
From	То	Hole II	· III.	lay Cen	nent.				
	-	-							· · · · · ·
	+	<del> </del>						<del></del>	
								· · · · · · · · · · · · · · · · · · ·	
		<u>!</u>	<del>!</del> -	·					<del></del>
ction	5			PLUG	SING RECO	ORD			
ame o	f Plugging	Contrac	tor				Lice	ase No	
reet a	nd Number				City		State		
ns of	Clay used.		Tons	of Roughage	ısed	Ту	pe of roug	hage	
u <b>g</b> ging	g method us	sed				Date Plu	igged		19
ugging	g approved	by:				Cement Plu	gs were pl	aced as follo	ows:
					No.	Depth of P		No. of Sack	s Used
			Basi	n Supervisor	<b>-</b> 7	From 7	Го		
	FOR USE	OF STAT	E ENGINE	ER ONLY					
D-4			,		<u>:</u>				
Date									
	Received	+++							
	Received		101110	1055					
	Received		NOV 10	1955					

Depth i	n Feet	Thickness	0-1	Municipal Manager 173		
From	To	in Feet	Color	Type of Material Encountered		
0	2	2		Rock & Soil	AND ARREST	
2	14	12		Rock		
14	20	6	-	Caliche		
20	180	160		Sand & Rock Shells		
180	186	6		Rook		
186	198	12		Water Sand		
198	210	12		Sandy 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.

Well 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.

Section 1			(A) O	wner of well	Conti	nental Oil	Company		
	]		City	Hobbs			State N	ew Mexico	
								d is located in the	
	250			· <del>-</del>			-	Rge. 33E	
				_				nse No. WD-349	
			1						
			City	nereic	ra n	ecember 20	State	Texas 1968	
								1968	
-	lat of 640								
								271	
State wh	ether w	ell is shall	ow or artesi	an Shallo	W .	Depth to wa	ter upon compl	etion 155	
Section 2	ı		P	RINCIPAL W	ATER-BEAR	ING STRATA			
No.	Depth	in Feet	Thickness i	n	De	scription of Water	r-Bearing Formati	on	
	From	То	Feet						
1	150	212	62	Sandro	ck and	red fine s	and		
2	212	237	25	Clean	red sa	nd			
3	237	239	2	Red cl	ay and	sand	<u> </u>		
4	239	265	26	Sand a	nd sma	ll gravel			
5							<u> </u>		
Section 3				RECO	RD OF CA	SING			
Dia	Pound	s Thre	ads	Depth	- Bank	Mana Chao	Peri	orations	
in.	ft.	in		Bottom	Feet	Type Shoe	From To		
12-3/4	49.56	5	- 0	270	270		181	2227	
		<u>l</u>	<u> </u>		<u> </u>	<u> </u>		1	
Section 4	:		REC	ORD OF MU	DDING AM	ID CEMENTING			
Depth	in Feet	Diam	-	1	ecks of		Methods Used		
From	То	Hole i	n in. Cla	y Cen	nent	<u> </u>			
							·		
<del></del>		- I			· · · · · · · ·				
Section 5				PLUG	SING REC	ORD			
Name of	Pluggin	g Contrac	tor				License N	0	
Tons of C	Clay use	d	Tons of	f Roughage	used				
							gged		
Plugging	approve	ed by:				Cement Plu	gs were placed a	s follows:	
		Vilerenz	Pagin	Cupordoor	No	Depth of P	No. 1	of Sacks Used	
		7-	Basin		<b>-</b>	From 7	Po		
	FOR U	SE OF ISTA	RNGINEER	ONLY					
Date I		יי זאוררט סיי	NA ATATS'						
שמו ז	E.Were	3 脚 71	NUC 6981	· — · · · · · · · · · · · · · · · · · ·				<del></del>	
1			- " - 2101		1 -				
i					<u> </u>				
File No.	L-3	528-5	<u> </u>	Use Use	TERFL	00 P Locatio	n No. 17.33.	3.14443	

#2 CAPROCK 2-174-25

### LOG OF WELL

Depth i	in Feet	Thickness	Color	Two of Material Procuntored
rom	То	in Feet	Color	Type of Material Encountered
0	6			Top Soil
6	30			Rock, caliche and sand
30	50		72	Sand, sandrock and caliche
50	88			Sand and sandrock
88	90			Rock
90	150			Sand and sandrock
50	212			Sandrock and fine red sand
12	237			Clean red sand
37	239			Red clay and sand
39	265			Sand and small gravel
65	270			Red Bed
, 6				L S Elev 4/83"
				Depth to K Trc 39.18
				Elev of A 1/65-A
			<del> </del>	
				Loc. No
				Loc. No.
-				Hydro. SurveyField Check
	-			COURSE OF ALTITUDE CIVEN
			· · · · · · · · · · · · · · · · · · ·	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.

WALCO BRILLING, INC. Well Driller BY: Wallen	
R. Paul Coneway President	0



### 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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660	1	Sline					The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the 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	State N	w Kexico
660	W OI	E. lime		•				g and	
Wter	Lease	w 99	i					Twp. 17 S	and the second second
			$\overline{}$	(B) Drilli	ng Contra	actor Ab	bott Bros.	Licen	se No. WD-46
								State N	
			0					Decembe:	
(P)	at of 640	acres)		Drilling w	as comple	eted		December	<u> 18                                   </u>
llevation	at top	of casing	in fee	et above se	a level		Total de	pth of well 2	65
tate who	ether w	ell is sha	llow o	or artesian	8	hallow_	Depth to wa	ter upon complet	ion 158
Section 2				PRIN	CIPAL WA	ATER-BEAR	ING STRATA		
No.	Depth	in Feet	Th	ickness in		Des	scription of Water	r-Bearing Formation	1
140.	From	То	_	Feet				•	- 
1	160	225		55	Wate	r Sand			
2	,	7	I						
3								A	· · · · · · · · · · · · · · · · · · ·
4									
5		1	<u> </u>						
ection 3					RECOR	D OF CAS	ING		
Dia	Pound	s Thr	eads	Dep		Feet	Type Shoe	i	rations
in.	ft.	i	in	Top	Bottom			From	То
16				0	19	19			
3/4	34	Weld	led	0	265	265	plain	170	232
	. ,							6 rows 1/8	XIX
2 cu.	yes.	SLEA61	. pac	k befor	e pump	ıng.	•	!	1
ection 4		1					D CEMENTING		
	in Feet		neter in in.	Tons Clay	No. Sa Cerr	icks of ient		Methods Used	
		11016			Į.				
From	То	-							
							:		
From					PLUGG	SING RECO	ORD		
From ection 5	То		ector					License No	
From ection 5	Pluggin	ng Contra	netor					License No.	
ection 5	Pluggind Numb	ng Contra				City		License No. State pe of roughage	
ection 5 Iame of treet and	Pluggir d Numb	ng Contra			oughage u	City	Ту	State	
ection 5 Iame of treet and	Pluggir d Numb	ng Contra		Tons of R	oughage u	City	Ty	State pe of roughage	19
ection 5 fame of treet and one of Colugging	Pluggir d Numb	g Contra perd used		Tons of R	oughage u	City	Ty Date Plu Cement Plu Depth of P	pe of roughage gged gs were placed as	19
ection 5 fame of treet and one of Colugging	Pluggir d Numb	ag Contra perd useddby:		Tons of R	oughage u	City	Ty Date Plu Cement Plu Depth of P	pe of roughage gged gs were placed as	19_
ection 5 fame of treet and one of Colugging	Pluggir d Numb lay use method approve	ag Contra ber used ad by:	21 M	Tons of R	oughage u	City	Ty Date Plu Cement Plu Depth of P	pe of roughage gged gs were placed as	19_
ection 5 fame of treet and ons of C lugging	Pluggind Numbellay uses method approve	ag Contra oerd used ed by:	21 M	Tons of R	oughage u	City	Ty Date Plu Cement Plu Depth of P	pe of roughage gged gs were placed as	19_
ection 5 fame of treet and ons of C lugging	Pluggir d Numb lay use method approve	ng Contra ber d used sd by:	DEC	Tons of R	oughage u	City	Ty Date Plu Cement Plu Depth of P	pe of roughage gged gs were placed as	19_

#1 MA| 2-137-1

LOG OF WELL

Depth i		Thickness in Feet	Color	Type of Material Encountered
	То	III Feet		
0	1	1		Soil
1	23	20	·	Caliche
21	150	129		Pack Sand
150	160	10		Hard Shell
160	225	65		Water Sand
225	240	15		Sandy Clay
240	265	25		Red Bed
				4
				L S Elev
				Depth to K Trc 2407 Elev of K Trc 3939/
				Elev of N 17c-1/2
				FV 17.33.4.44322
		· · · · · · · · · · · · · · · · · · ·		1/.33:7.7432
				Loc. No
			1	Hydro. SurveyField Check X
				Cauper
				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

Walt Dwillon

1-3528

17.33.4.440





### WELL RECORD

Section 1	l		(A) Own	er of well	Yueda	enter Co.		
								aing
								Texas
								d is located in the
			- SE 1/4	III 1/4	NE 14	of Section	5 Twp. 173	Rge. 332
			(B) Drill	ing Contra	actorA	ebott Bros	· Lice	nse No
1			Street and	Number.		ox 637		
			City lob	bs			State	New Nextco
	1 1		Drilling v	vas comm	enced		June 18	19_59_
L			Drilling w	as comple	eted		June 2	5 19 59
•	Plat of 640 a			. 11		Matal day	oth of well	272
							ter upon comple	
		ı ıs snam				-	ter upon compte	etion
Section 2				ICIPAL WA	ATER-BEARI	NG STRATA		
No.	Depth ir	To	Thickness in Feet		Des	cription of Water	-Bearing Formation	on
1								
	160	260	_100	water	sand			
2				<del></del>				
3								
4								
5				<u> </u>				
Section 3	3			RECOR	D OF CAS	ING		
Dia	Pounds	Threa	ds De	pth	Feet	Trong Chas	Perfo	prations
in.	ft.	in	Тор	Bottom	reet	Type Shoe	From	То
193/4	24	welc	1 0	272	272	open	165	260
	<u> </u>		<u></u>					
Section 4	1		RECOR	D OF MUE	DING AN	CEMENTING		
	in Feet	Diame		No. Sa				
From	То	Hole in		Cem			Methods Used	
	1							
	1	1						
				DI II C				
Section 5					SING RECC			
								)
	-							
								19
rlugging	approved	by:				<del></del>	s were placed a	s tollows:
			Basin Sup	ervisor	No.	Depth of Pl	No. o	f Sacks Used
	FOR HER	OT STATE	E ENGINEER O		7			
	FUR USE	OF STAT	E ENGINEER O	1				
Date 1	Received _		FILE					
			1111 ~ 444	do				
			JUL 7 199	oa 🎢, 🎙		<u> </u>		
	1 5-	0 100	OFFICE	- *	consu	Hecovery	. 17 20 .	(22220
TOUT - NT -	1-33	7 XI (5 K)	DUND WATER SIT	Heave III		O. L. Locatión	n No //. 3.3 🗈	1. 1. 1 1.60

LOG OF WELL

Depth in Feet From To		Thickness	Color	Type of Material Encountered				
From	То	in Feet	Color					
0	1	1		Soil				
1	14	13		Galiche				
16	95	79		sand and gravel				
95	160	55		tight sand (hard)				
160	260	100		water said				
260	272	12	AND OFFICE STATE OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF T	red clay				
			;					
				L S Elev 4/987  Depth to K Trc 2607  Elev of K Trc39387				
				Depth to KTrc_260				
				Elev of KTrc3938/				
				February 17.33.5.22220				
				Loc. No				
				Hydro, Survey Field Check X				
				SOURCE OF ALTITUDE GIVEN				
				Interpolated from Topo. Sheet				
				Determined by Inst. Leveling				
				Other				
	<del> </del>	<del> </del>						
	<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

1-35-98-1

17.33.5.222

			·····	(A) Owne	er or werr		cca wat		y	
				Street and	Number.	<b>3</b> 0	O Park	venue		
			_ (	City		Ne	w York	8500	State	Y, is located in the
		j								Rge. 33E
					-					se No. WD-115
	İ								muo	
		_								звх
										19
(P	lat of 640 a	cres)	I	Drilling w			June 2:	1968		19
		-	n feet	ahove se	alevel	3800	Tot	al denth o	f well	287 feet
	_									ion 210 fee
		15 511411	JW 01				_		post company	
ction 2					CIPAL WA	ATER-BEAS	RING STRAT	Α		
No.	Depth in	Feet		kness in Feet		De	escription of	Water-Bear	ing Formation	1
	XXX	179x		<b>2</b> 9	San	ixx <b>ele</b> ;	CHARGER	alixare	rei	
:	230	255		25	Sand	i with	streaks	of cla	у	
3	255	<b>26</b> 0		5	Shear	tkagra	est Brow	m sand	and clay	- gray grav
	265	270		5	Bros	m san	i			
	270	280		10	Brow	an ama	ll grave	l and e	andy cla	У
ction 3	,				PECOP	D OF CA	SING			
			. 1	Dor		I OF CA	1		Porfer	ations
Dia in.	Pounds ft.	Threa	ds	Top	Bottom	Feet	Type Si	10e	From	To
2-3/	30	****	ded	297x		28	7 welc	loci 6	47 242	287 282
6-0/	<u> </u>	MG7	MO/4		!		n mest	KOK 2	一番会 ンムマ	<b>202</b> 707
			- : 1							76.76.
									42	
			:							
			:							
ction 4				RECOR	D OF MU		ND CEMEN			
Depth	in Feet	Diame		Tons	No. Sa	DDING A		TING		
Depth		Diame Hole in			-	DDING A		TING	42	
Depth	in Feet	1		Tons	No. Sa	DDING A		TING	42	
Depth	in Feet	1		Tons	No. Sa	DDING A		TING	42	
Depth	in Feet	1		Tons	No. Sa	DDING A		TING	42	
Depth	in Feet	1		Tons	No. Sa	DDING A		TING	42	
Depth From	To To	1		Tons	No. Sa Cem	DDING A	ND CEMEN	TING	42	
Depth From	To To	Hole in	in.	Tons Clay	No. Sa Cerri	DDING Allocks of hent	ND CEMEN	TING Me	thods Used	
Depth From	To To Plugging	Hole in	tor	Tons Clay	No. Sa Cem	DDING Allicks of lent	ND CEMEN	TING Me	thods Used  License No.	
Depth From	In Feet To Plugging	Hole in	tor	Tons	No. Sa Cem	DDING All cks of hent BING REC	ND CEMEN	TING Me	thods Used  License No. State	
Depth From	Plugging d Number	Contract	tor	Tons Clay	No. Sa Cem	DDING Alleks of hent  City  Listed	ND CEMEN	Type of	thods Used  License No. State	
Depth From	Plugging ad Number	Contract	tor	Tons Clay	No. Sa Cem	DDING Alleks of hent  City  Listed	ND CEMEN	Type of e Plugged	thods Used  License No. Stateroughage	19
Depth From	Plugging d Number	Contract	tor	Tons Clay	No. Sa Cem	DDING Alleks of hent  City  Listed	CORD Dat Cemen	Type of e Plugged t Plugs we	thods Used  License No. State	19
Depth From	Plugging ad Number	Contract	tor	Tons Clay	PLUGG	DDING Alleks of hent  City  Listed	CORD  Dat Cemen	Type of e Plugged	thods Used  License No. Stateroughagere placed as	19
Depth From	Plugging ad Number Clay used method u approved	Contract	tor.	Tons Clay	PLUGG	DDING Allocks of hent  BING REC	CORD  Dat  Cemen  Depth	Type of e Plugged t Plugs we of Plug	thods Used  License No. Stateroughagere placed as	19_follows:
Depth From	Plugging d Number Clay used method u approved	Contract sed. by:	tor	Tons Clay  Fons of R  Basin Sup	PLUGG	DDING Allocks of hent  BING REC	CORD Dat Cemen	Type of e Plugged t Plugs we of Plug	thods Used  License No. Stateroughagere placed as	19_follows:
ction 5 ame of reet an ons of ( ugging ugging	Plugging d Number Clay used method u approved	Contract sed. by:	tor	Tons Clay  Fons of R  Basin Sup	PLUGG	DDING Allocks of hent  BING REC	CORD Dat Cemen	Type of e Plugged t Plugs we of Plug	thods Used  License No. Stateroughagere placed as	19_follows:
Depth From	Plugging d Number Clay used method u approved	Contract sed. by:	tor	Tons Clay  Fons of R  Basin Sup	PLUGG	DDING Allocks of hent  BING REC	CORD Dat Cemen	Type of e Plugged t Plugs we of Plug	thods Used  License No. Stateroughagere placed as	19_follows:

### LOG OF WELL

Depth i		Thickness	Color	Type of Material Encountered
From	То	in Feet	~	Type or married and officer by
0	20	<b>2</b> 0	White	Dolomite
30	60	40	Brown	Calechi and sand
50	220	160	Brown	Fine Sand
<b>S</b> O	<b>R\$</b> 523	<b>\$1</b> 0	Brown	Clay
30	255	<b>2</b> 5	Brown	Sand with Streaks of clay
55	<b>26</b> 0	5	Gray	Gravel
30	265	5	Brown	Clay
35	270	5	Brown	Sand
70	280	10	Brown	Small gravel and sandy clay
30	285	5	Brown	Clay
35	287	2	Purple	Clay
			· · · · · · · · · · · · · · · · · · ·	1 S Flow 4/2//5
				Depth to K Trc 200 Elev of K Trc 3 2 3
			<del></del>	Elev of KTrc3 4 3
	· · · · · · · · · · · · · · · · · · ·			
				15.00
				Loc. No. 17.33.6. ////
				Loc. No
- :				
				SOURCE OF ALTITUDE
			·	SOURCE OF ALTITUDE GIVEN
		_:		Interpolated from Topo. Sheet
			· · · · · · · · · · · · · · · · · · ·	Determined by Inst. Leveling
			<u> </u>	Other / coccia l'ep+

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

B. E. Greenwood

1-3598

17.33.6.111

### WELL RECORD

Section 1				(A) Owns	m of wall					
				Street and	Number	B. E	Paschall Il, th St.			
							it No			
				Wen was	armed un	der Fern	of Section 6	24	and is loca	11 III 1131.
1							Deilling			
		İ					21 5. Love			
				City	Mumber.	I	Si a Foxe	Stat	A 15 16-	
				Drilling w	Lovingt	oned a	pt-28	Stat	~ <del>````````````````````````````````````</del>	10 6/1
							pt. 28			
(P	lat of 640 a	res)		Diming w	as compre	56	pt. 20			. 10
Elevation	at top of	casing in	n fee	t above sea	level		Total de	pth of well	100 ft.	
tate wh	ether well	is shall	o wc	r artesian_	shall	OW	Depth to wa	ter upon co	mpletion	90
ection 2				PRIN	CIPAL WA	ATER-BEAR	NG STRATA			
	Depth in	Feet	Thi	ckness in						
No.	From	To		Feet		Des	cription of Water	r-Bearing For	mation	
1							· · · · · · · · · · · · · · · · · · ·			
2								<del> </del>		
3		· <del>.</del>								
4										
5	1			<u> </u>						
Section 3					RECOR	D OF CAS	ING			
Dia	Pounds	Threa	ds	Dep	th	Feet	Trong Shee		Perforations	*
in.	ft.	in		Top Bottom		reet	Type Shoe	From		То
				4	ous		ida ti	1.00	·	
ection 4				RECORI	OF MU	DING AN	D CEMENTING			
	in Feet	Diame		Tons	1		D OLIVICIATINO		· · · · · · · · · · · · · · · · · · ·	
From	To	Hole in		Clay	No. Sacks of Cement			Methods U	sed	
	<u> </u>									
		7								***
	- <del> </del>									
						· · · · · ·				
ection 5					PLUGG	SING REC	ORD			
ame of	Plugging	Contract	tor					License	e No	
treet an	d Number					_ City		State		
ons of C	Clay used			Tons of Ro	oughage u	ısed	Ту]	pe of rough	age	
lugging	method us	sed					Date Plu	gged	,	19
lugging	approved	by:					Cement Plug	gs were plac	ed as follows	s:
						T.,	Depth of P	lug		
				Basin Supe	rvisor	No		?o	No. of Sacks U	Jsed
	FOR USE	OF STAT	E (EX)	CINEER ON	ILY					
	IA	31.110.7	ינג. זרויו	GINEER ON	9					
Date F	Received	) UEEK	יובבנ	HOIYA MENDI						
		8: 3	A 3	e0 0CL S	61		<del>  </del>			
								<del></del>		
		,			0	7.			/	
File No.	1-45	24			.Use Los	A	Location	n No. 12. 5	3.6.440	2

Depth i	in Feet	Thickness		
From	То	in Feet	Color	Type of Material Encountered
			4.	
				75 ft. to 100 ft. on a domestic well, for
				Stock watering only.
			-	
	·			
			-	
			<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



### WELL RECORD

Section 1				(A) Owner	of wall	Day S. N.		./. 6	A Tumb	
				Street and			rilling Co;	<del>70</del>	U. LAMO.	
							City		State *	exa &
							nit No.			
							4 of Section 7			
							& P Drillin			
							South Love	-		
<u> </u>							COUNT NOTO			New Next co
		}					Nay I			
L				Drilling wa	s comple	eted	May 3			19 59
(P	lat of 640	acres)			o compr					
Elevation	at top o	f casing i	n feet	above sea	level		Total de	epth of w	rell245	)_ft
State wh	ether wel	ll is shall	low or	artesian	Shall	.or	Depth to w	ater upor	completion	2Th ft
Section 2	:			PRINC	IPAL WA	TER-BEA	RING STRATA			
	Depth is	Feet	Thic	kness in				<del></del>		
No	From	To		Feet		De	escription of Wate	er-Bearing	Formation	
1			<u> </u>		···	<del> :</del>				
	214	2119	<del> </del>	-						·
2			<del> </del>							
3										
4		*							- 1	4
5										
Section 3					PECOP	D OF CA	SING			
		· 1 ·	- 1	Dept		l OF CA	1	1	Perforati	
Dia in.	Dia Pounds in. It.		Threads Top		Bottom		Type Shoe	Fr	om	To
			- :					<del> </del>		
		No	11 <del>0</del>		·					
								<b>†</b>		
	<u>'</u>							†		
		<del>-! :</del>				<u> </u>	<u> </u>	<del>'</del>	·····	
Section 4	:			RECORD	OF MUE	DING A	ND CEMENTING			
Depth	in Feet	Diam		Tons	No. Sa			Method	is Used	
From	То	Hole i	n in.	Clay	Cem	ent				
		7				None				
	1				ļ <u>.</u>					
	<u>i</u>				<u> </u>	<u> </u>				
ection 5					PLUGG	ING REC	CRD			
									<b>&gt;</b>	
	-						T	_		
							Date Pl			
lugging	approved	by:					Cement Plu	gs were	placed as fo	llows:
						N	Depth of I		No. of Se	cks Used
				Basin Super	visor	<b>-</b>	From	To		
	FOR USE	OF STA	re en	GINEER ON	X					
			f, T		U					
Date I	Received			0 / 4050	8		4.5			
			JUN	24 1959	1/2					
				WATER SUPP	Park					

Depth in	To	Thickness in Feet	Color	Type of Material Encountered
From	То	In Feet		777 - 7110111111111111111111111111111111
0	_1			Set 1
I	4_			Reck
h	25	- 2		Clichie
25	75			Sandy Clay
25 75	140			Dry Sand
140	194			Sandy Clay
194	217			Water Sand
211	230			Sandy Clay
			*	
230	21.1.			Sand
244	21.7/	_		Sand & Gravel
247	249	-		Red Bed
	-		, , , , , , , , , , , , , , , , , , , ,	
				112291
				L S Elev
				L S Elev 42297  Depth to K Trc 2477  Elev of K Trc 3.7825
	· · · · · · · · · · · · · · · · · · ·			LIOV OF RELIEF
		. 1		
				Loc. No. 17. 33. 7. 32322
				Hydro. SurveyField CheckX
			· · · · · · · · · · · · · · · · · · ·	
				SOURCE OF ALTITUDE
				SOURCE OF ALTITUDE GIVEN
				Interpolated from Topo. Sheet
				Determined by Inst. Leveling
	14			Other

The undersigned hereby certifies that, to the best of his	knowledge and belief,	the foregoing is a true and cor-
rect record of the above described well.	1	

Wall Dellar

1-4/22

17.33.7.320



### WELL RECORD

	L .		(A) Ou	mer of well		KEWAHEE O	L CAMPANY	
						x 124		
1			Well wa	as drilled u	nder Peri	nit No. NUME IP	IL VILLAS	MEN MEXICA d is located in th
								3 Rge 33E
<del></del>								nse No. 79
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								1955
levation	_	of casing						227 etion 182
ection 2						RING STRATA		
No.	Depth	in Feet	Thickness in		De	escription of Water	-Bearing Formati	on
1	164	188	24		u* W.*	R SAND		
			1					:
3	188	215	27	Geal	WATE	SAND AND	BRAVEL	
4				· ·				100 mm
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5		·	1	<u> </u>	· · · · · · · · ·		<u> </u>	
ection 3	3			RECOR	D OF CA	SING		
Dia	Pounds	Thre		Depth	Bottom Feet Type Shoe —			orations   To
in.	ft.				218	1	From	
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ection 4	1		RECO	ORD OF MUI	DDING A	ND CEMENTING		
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				PLUG	SING REC	ORD		
ction 5	;							
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ame of	Pluggin	g Contra	ctor		City	<u> </u>	License N	0
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Depth in	To	Thickness in Feet	Color	Type of Material Encountered
0	4	4	WHITE	Tep Reck
4	12	8	Rep	SAND
12	17	5	WHITE	HARD ROCK
17	51	34	RED	SAND
	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	GRAY	Broken Lime
149	155	6	BRXX RES	SAND
155	164	9	GRAY	BROKEN LIME
164	188	24	RED	SAND - LIGHT WATER SAND
188	189	1	GRAY	LINE SHELL
189	215	26	BROWN	SAND AND GRAVEL - GOOD WATER SAND
215	220	5	RED	SANDY BHALE
220	222	2	RES	PACK SAND
555	227	5	RED	SHALE
	rijî a li	/ -		
	SET I	D" PIPE AT	217 2 PEE	F INTO RED SANDY SHALE
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-				Depth to KTrc222r
				1-30 17.33.7.40000
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				Hydro. SurveyField CheckX
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The undersigned hereby certifies that, t	to the best of his	knowledge and	l belief, the	foregoing	is a true and	i cor-
rect record of the above described well.		1 × 1	*	11	1	

SOURCE OF ALTITUDE GIVEN

Interpolated from Topo. Sheet X

Determined by Inst. Leveling

Other

L-2771

17.33.7.400



### WELL RECORD



Section 2  PRINCIPAL WATER-BEARING STRATA    No.   Depth in Feet   Thickness in   Description of Water-Bearing Formation	Section 1	l		(A) O	man ofall	- Miles	Santaniská mát. 19.		
City Mell was drilled under Permit No. and is located in "4. SN "4. SN" 4. of Section 9 Twp. 17.8 Rgc 33 E (B) Drilling Contractor Abbett Bros. License No. MD-44 Street and Number Box 637 City Hobbs State New Hox. Co. Drilling was commenced Dec. 19 19 9 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 5 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21 19 Dec. 21				4					
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Section 2  PRINCIPAL WATER-BEARING STRATA  No. Depth in Feet From To Feet Feet To Description of Water-Bearing Formation  1 160 230 70 Water Sand  2 3 4 5 5									
Depth in Feet   Thickness in Feet   Thickness in Feet   Thickness in Feet   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too	State wh	ether wel	ll is shall	low or artesia	n Shall	ON	Depth to wa	ter upon completio	n 160
Prom   To   Feet   Description of water-searing Permandon	Section 2	2		PR	INCIPAL W	ATER-BEAF	ING STRATA		
Prom   To   Peet		Depth in	ı Feet	Thickness in		De	equiption of Wests	r Booring Formation	
RECORD OF CASING  Section 3  RECORD OF CASING  Dia Pounds in Threads Top Bottom Feet Type Shoe From To  Bection 4  RECORD OF MUDDING AND CEMENTING  Depth in Feet Diameter From To Hole in in. Clay Cement Methods Used  Section 5  PLUGGING RECORD  Street and Number City State.  Plugging method used Tons of Roughage used Type of roughage  Plugging approved by:  Cement Plugs were placed as follows:  No. Depth of Plug were placed as follows:  No. Depth of Plug were placed as follows:  No. Depth of Plug were placed as follows:  No. Depth of Plug were placed as follows:	No.	From	То	Feet		20	.scription of wate	-Bearing 1 or mation	
RECORD OF CASING  Section 3  RECORD OF CASING  Dia Pounds In. Threads in. Top Bottom Feet Type Shoe From To  RECORD OF MUDDING AND CEMENTING  Depth in Feet Diameter Tons No. Sacks of Cement Methods Used  Depth in Feet Diameter Hole in in. Clay Cement Methods Used  Prom To Hole in in. Clay Cement Toma Methods Used  Section 5  PLUGGING RECORD  State  From Of Plugging Contractor City State  From 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 were placed as follows:  No. Depth of Plug were placed as follows:  No. Depth of Plug were placed as follows:  No. Depth of Plug were placed as follows:	1	160	230	70	Wat	er San	d:		
RECORD OF CASING    Dia	2								
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RECORD OF CASING    Dia	4				<del>                                     </del>				· · · · · · · · · · · · · · · · · · ·
RECORD OF CASING    Dia									
Dia Pounds in. Threads in Top Bottom Feet Type Shoe From To    Section 4   RECORD OF MUDDING AND CEMENTING	J		<del></del>	1	<u> </u>	<u> </u>			
Section 4  RECORD OF MUDDING AND CEMENTING  Depth in Feet Diameter Tons Hole in in. Clay Cement Methods Used  Section 5  PLUGGING RECORD  Name of Plugging Contractor City State  From To Tons of Roughage used Type of roughage  Plugging method used Date Plugging approved by:  Cement Plugs were placed as follows:  Plugging approved by:  Cement Plugs were placed as follows:  No. Depth of Plug  No. of Sacks Used  FOR USE OF STATE ENGINEER ONLY  Date Received GROUND WAS SECURITIES RECORD	Section 3	3			RECO	RD OF CA	SING		
Section 4  RECORD OF MUDDING AND CEMENTING  Depth in Feet From To Hole in in. Clay No. Sacks of Cement Methods Used  Section 5  PLUGGING RECORD  Name of Plugging Contractor City State  Fons of Clay used Tons of Roughage used Type of roughage  Plugging method used Date Plugging approved by:  FOR USE OF STATE ENGINEER ONLY DEC 30 1957  Date Received OF STATE ENGINEER ONLY DEC 30 1957  Date Received GROUND WASHE CLUTCHUSOR	Dia		Threa			Feet	Type Shoe	l <u></u>	ions
Depth in Feet Diameter From To Hole in in. Clay No. Sacks of Cement Methods Used  PLUGGING RECORD  Name of Plugging Contractor License No.  Street and Number City State  Fons 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 No. of Sacks Used  FOR USE OF STATE ENGINEER ONLY  DEC 3 0 1957  Date Received OFFICE GROUND WASE SUSSON	in.	ft.	in	Тор	Bottom		3 2	From	То
Depth in Feet Diameter From To Hole in in. Clay No. Sacks of Cement Methods Used  PLUGGING RECORD  Name of Plugging Contractor License No.  Street and Number City State  Fons 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 No. of Sacks Used  FOR USE OF STATE ENGINEER ONLY  DEC 3 0 1957  Date Received OFFICE GROUND WASE SUSSON									
Depth in Feet Diameter From To Hole in in. Clay No. Sacks of Cement Methods Used  PLUGGING RECORD  Name of Plugging Contractor License No.  Street and Number City State  Fons 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 No. of Sacks Used  FOR USE OF STATE ENGINEER ONLY  DEC 3 0 1957  Date Received OFFICE GROUND WASE SUSSON			-			<b> </b>	-	ļ <u>.</u>	
Depth in Feet Diameter From To Hole in in. Clay No. Sacks of Cement Methods Used  PLUGGING RECORD  Name of Plugging Contractor License No.  Street and Number City State  Fons 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 No. of Sacks Used  FOR USE OF STATE ENGINEER ONLY  DEC 3 0 1957  Date Received OFFICE GROUND WASE SUSSON									
Depth in Feet Diameter Tons No. Sacks of Cement Methods Used    From To Hole in in. Clay   No. Sacks of Cement   Methods Used		f	· I					1	
From To Hole in in. Clay Cement Methods Used  Section 5 PLUGGING RECORD  Name of Plugging Contractor License No.  Street and Number City State  Fons 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   No. of Sacks Used	Section 4	· }		RECO	RD OF MU	DDING AN	ND CEMENTING		
Plugging Contractor Street and Number City Common of Plugging Contractor City State Fons of Clay used Tons of Roughage used Type of roughage Plugging method used Plugging approved by: Cement Plugs were placed as follows:    Depth of Plug   Prom   To   No. of Sacks Used	Depth	in Feet	Diame	eter Tons	No. Sa	acks of			
Name of Plugging Contractor  Street and Number  City  State  Tons of Clay used  Tons of Roughage used  Plugging method used  Plugging approved by:  Cement Plugs were placed as follows:  No. Depth of Plug From To  No. of Sacks Used  Date Received  GROUND WASSESSUNGLESS	From	То	Hole in	n in. Clay	Cer	nent		Methods Used	
Name of Plugging Contractor  Street and Number  City  State  Tons of Clay used  Tons of Roughage used  Plugging method used  Plugging approved by:  Cement Plugs were placed as follows:  No. Depth of Plug From To  No. of Sacks Used  Date Received  GROUND WASSESSUNGLESS									
Name of Plugging Contractor  Street and Number  City  State  Tons of Clay used  Tons of Roughage used  Plugging method used  Plugging approved by:  Cement Plugs were placed as follows:  No. Depth of Plug From To  No. of Sacks Used  Date Received  GROUND WASSESSUNGLESS									
Name of Plugging Contractor  Street and Number  City  State  Tons of Roughage used  Plugging method used  Plugging approved by:  Cement Plugs were placed as follows:  No. Depth of Plug From To  No. of Sacks Used  Poste Received  GROUND WASSESUMCEVISOR  City  State  Type of roughage  Plugged  19  Cement Plugs were placed as follows:  No. Depth of Plug From To  No. of Sacks Used									
Name of Plugging Contractor License No.  Street and Number City State  From 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   No. of Sacks Used		<u> </u>	<u> </u>			<u> </u>			
Name of Plugging Contractor  Street and Number  City  State  Tons of Clay used  Tons of Roughage used  Plugging method used  Plugging approved by:  Cement Plugs were placed as follows:  No. Depth of Plug From To  No. of Sacks Used  Date Received  GROUND WASSESSUNGLESS	Spotion 5				PLUG	SING PEC	OPD		
Street and Number City State  Fons 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  Date Received GROUND WASSELUCCY/ISOR  GROUND WASSELUCCY/ISOR			G4	4				T . 37	
Tons of Clay used									
Plugging method used									
Plugging approved by:  Cement Plugs were placed as follows:  No. Depth of Plug  No. of Sacks Used  Por USE OF STATE ENGINEER ONLY  DEC 3 0 1957  Date Received  GROUND WASSESSUPPLISOR					nougnage (				
No. Depth of Plug No. of Sacks Used  FOR USE OF STATE ENGINEER ONLY DEC 3 0 1957  Date Received  GROUND MASSE AUTOMISOR									
FOR USE OF STATE ENGINEER ONLY DEC 3 0 1957  Date Received  GROUND WASE SUPERVISOR  No. From To No. of Sacks Used	Tuggmg	approveu	by.				<u> </u>	<del> </del>	mows:
Date Received GROUND WASELSUNGEVISOR			1 2	Basin Si	pervisor	No	), I	No. of S	acks Used
DEC 3 0 1957  Date Received OFFICE GROUND WASELSUNGSVISOR			- 2	20, 20,4	- 8. 7/	<b>-</b>	11000		
Date Received OFFICE GROUND WAS EXCENTED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVE		FOR USE							
GROUND WASSES LUMPSVISOR	Doto T	Danni-ma	1 '	DEP 20 123	1			<u> </u>	
ROSWELL, NEW MIS GO	Date 1	received -		OFFICE	SORIVE	<b>□</b>   ÷	<del>: </del>		
No. of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of			GRO	COSWELL, NEW MO			1 1		
						ļ		·	<del></del>

### Section 6

### LOG OF WELL

Depth is	To	Thickness in Feet	Color	Type of Material Encountered
0	1	1	<u> </u>	Soil
1	19	18		Galiche
19	160	141	****	Dry Sand
160	230	70		Water Sand
ĺ				
	,			
			· ·	

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

FIELD ENGR. LOG

# CURCE OF COLVER OFFICE WELL RECORD

Unit Well 243

	Т		<u> </u>	(A) Own	er of well.	Contin	ental 011	Company	******
					d Number			**	
								State	
								1-5-2 and 178	d is located in th Rge. 33E
		- <u>                                    </u>	<b>−</b>   ,	(B) Drill	ing Contra	ctor Abk	ot Brother .Box 657	E Lice	nse No. WD-46
				City	ı Muniper	Hol	្រម ្	State Ne	w Mexico
'			I	Drilling v	was comme	enced	7-8-67		19
<u> </u>	<u> </u>		1	Drilling w	vas comple	te <b>d</b>	7-19-67		19
•	lat of 640		n feet	ahove se	a level		Total de	epth of well 20	<b>52</b> •
State wh	ether we	ell is shall	ow or	artesian.	Shallo	wi	Depth to wa	ater upon comple	tion 180'
Section 2							ING STRATA		
Section 2	<del></del> -	in Feet	Thic	kness in	LIFAL WA				
No.	From	То		Feet		De	scription of Wate	r-Bearing Formation	on .
1	198	262		64'	sand		· · · · · · · · · · · · · · · · · · ·		
2									
3									
4				1					
5									
Section 3	3				RECOR	D OF CA	SING		
Dia in.	Pounds ft.	Threa in	ds	Top	pth   Bottom	Feet	Type Shoe	Perfo From	rations
12 3/4	36	wel	5aF	-1	262	263	open	170	250
14 2/4	20	44.0.44	704	1	202				
								4 rows 3/1	6 X 12
Section 4	<b>.</b>			RECOR	D OF MUD	DING AN	ID CEMENTING		
Depth	in Feet	Diame Hole in		Tons Clay	No. Sac Cem	. 1 .		Methods Used	
				•					· · · · · · · · · · · · · · · · · · ·
							:	<del></del>	
				1					
-		-							
Section 5	r Harita				PLUGG	ING REC	ORD		
		g Contract	or					License No	
Plugging	method	used			·		Date Plu	ugged	19
Plugging	approve	d by:					Cement Plu	gs were placed a	s follows:
, <u></u>	<i>Y /</i>	97 37		Basin Sup	pervisor	No	Depth of I	Plug To No. o	f Sacks Used
		7 7 179	20/95	TINEED O	NT V	7			
1	~Ul-4.401 :	$_{\mathrm{O}}$ J. Mer $U/NB$	7		4441				
Date	dcepved	81 730	7/19	0	· · ·				
	- MU	81 130	100						
			4 JU/						
<b>1</b>	1-2	528.5	٠			8 0	orrected	on No. /2.33	933/1324
File No.	. P _ 7	J J 6 1-3	<u> </u>		Use	= ^ /	Locatio	on No. Z	10-1-400

Depth in Feet		Thickness	G-7	Throad Material Programme		
From	То	in Feet	Color	Type of Material Encountered		
0	1	1		surface soil		
	26	25		caliche		
26	78	52		send, tight		
78	96	16		sand, loose		
<u>46</u>	129	33		send, tight		
129	232	103		senô 7		
232	252	20		eendy clay		
252	262	10	red	CLSY		
.,						
				1 S Flow 4200'		
				L S Elev		
				Elev of KTrc_3 9 4 87		
				SP 17.33.9.331432		
· · · · · · · · · · · · · · · · · · ·						
	1	<del> </del>	<u> </u>	Loc. No		
<del></del>	<del>                                     </del>			Hydre, SurveyField CheckX		
	<del>                                     </del>					
	<b> </b>	<del> </del>	-			
			<del></del>			
		<del>                                     </del>		Chitany or		
		<del> </del>		SOURCE OF ALTIFUDE CIVEN		
		<del> </del>		Interpolated from Topa Sheet		
		+		Other		
				Outci		
	<b> </b>	<del>  </del>				
<del></del>		<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.

Well Driller by PS

# STATE ENGINEER OFFICE WELL RECORD

FIELD LHUR. WG

### Section 1. GENERAL INFORMATION

Street or	Post Office A	l Basic I ddress P.O. lsbad, Ne	Box 31			Companyouf	··sAmerica	# 8
					and is located	d in the		
						17S Ran	33E	
					•	- LIO Kan		
c. Lot No Subdiv	o	of Block No	Lea	of th	e County.			
d, X=						System		Zone in Grant,
) Drilling C	ontractor	Abbott 1	Bros. D	rilling		License No	D-46	
dress Ho	obbs, Ne	w Mexico	88240	)				
illing Began .	4/21/	81 Comp	leted	5/4/81	Type tools _	Cable	Size of hole	24 in.
evation of lan	ıd surface or _			at we	ell is	ft. Total depth	of well 268	3 , ft.
mpleted well	is 🗓 s	hallow .a.				r upon completion	of well 155	5 * ft.
Depth i	n Feet	Sect Thickness			R-BEARING S		Estimate	d Yield
From	То	in Feet	E	escription of	Water-Bearing l	Formation	(gallons pe	r minute)
159	230	71	Sar	nd				
				4				
	_							
		T			OF CASING			
Diameter (inches)	Pounds per foot	Threads per in.	Depth Top	Bottom	Length (feet)	Type of Sho	e From	forations To
14	36.71	Welded	0	269	269		155	268
Depth i	in Feet	Section Hole	on 4. RECOR		DING AND CEN			
From	То	Diameter	of Mu		of Cement	Metho	d of Placement	:
			Section	n 5. PLUGGI	NG RECORD			
dress	ctor					Depth in I	Feet	Cubic Feet
gging Metho te Well Plugg	d	·.			No.	Тор	Bottom	of Cement
gging approv				, l	2			
		State Engi	neer Repres		4			
te Received	May 14,	1981	FOR USE		NGINEER ONI			
· 104				Quad	i	FWL	F	SL
File No	L-1880-S	5-3			00	Location No. 1		142 116.

<u> </u>			Section 6. LOG OF HOLE
Depth · From	in Feet To	Thickness in Feet	Color and Type of Material Encountered
· · Prom	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
			unt
			L S Elev 4/48  Depth to K Trc 24/1
		ļ	Elev of K Trc-3907
	•		Loc. No. 17. 33.12. 14110
			Hydro. Survey Field Check PCA SURVEY
			SOURCE OF ALTITUDE GIVEN
			Interpolated from Topo. Sheet
			Determined by Inst. Leveling
			Othes
			•
	, ,		· · · · · · · · · · · · · · · · · · ·
			. "

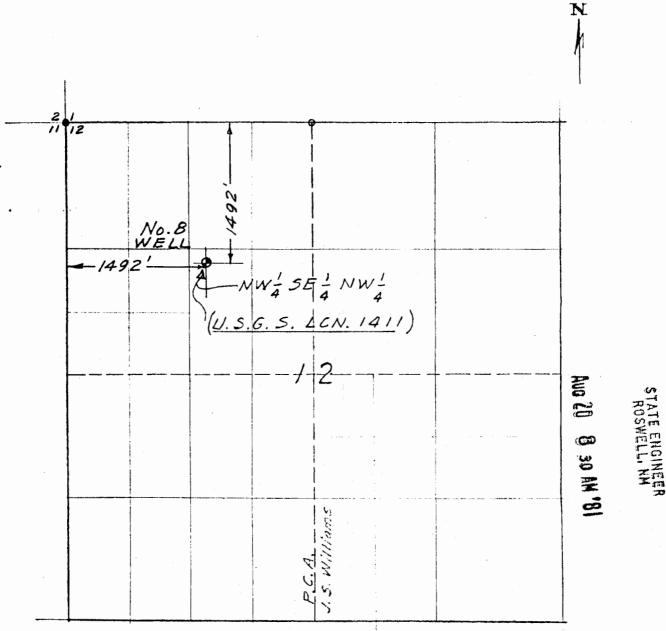
Section 7. REMARKS AND ADDITIONAL INFORMATION

STATE ENGINEER OFFICE
ROSWELL N.M.

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 Albott

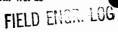
SECT. 12, T. 175., R. 33 E. (W; of Sect. - P.C.A. deeded land.)



1"=1000'

1-1880-5-3 .14110

ECJ 8/17/81



### WELL RECORD

				I A I I IUN	er of well		h Company				
			- 1:	Street and	Number		Box 31				
				City Co	rlebad				State .	New	Nexteo
				Well was	drilled u	nder Perr	nit No. L-18	90 thru	aı	l <b>⇔e⊈</b> ndisl	ocated in th
			_ ,] .				4 of Section				
			<i>[</i>	(B) Drill	ing Contr	actor	Abbott Er	08,	_ Lic	ense N	To. #D= 46
	100/	1.0		Street and	l Number.	i	. C. Boz	637			
		1152 9 510	<del>-</del>	City	Hob	be ·			State	New	Hextoo
0	100	~ )		Drilling v	was comm	enced	Ken S				19
				Drilling v	vas comple	eted	May 5			<del></del>	19 66
•	lat of 640							. *		980	
vation	at top o	of casing in	n feet	t above se	a level	720	Total d	lepth of w	vell	445	115
ite wh	ether we	ell is shalle	ow or	artesian.			Depth to w	ater upor	1 comp	letion	
tion 2				PRIN	ICIPAL W	ATER-BEAR	ING STRATA				
No.  _		in Feet	•	kness in		De	scription of Wat	er-Bearing	Format	ion	
	From	То		Feet							
	115	230	1	115	Wa	ter ean	id .				
	235	250		25	Sai	ed and	gravel				
	· · · · · · · · · · · · · · · ·										· · · · · · · · · · · · · · · · · · ·
					DECO	D OF C4	CINIC				
tion 3		<del></del>				RD OF CA	211/10	1			
Dia in.	Pounds ft.	Threa in		Top	pth Bottom	Feet	Type Shoe	Fr	om	foration	To
14	35	#el		0	259	259	open	12			240
				1							
- 1						1		-		_	
Drs	lled l	26" ho1	6								
Drt	lled l	24" ho1	6								
		26" ho1	a								
		26" ho1	a		D OF MUI	DDING AN	ND CEMENTING				
etion 4	in Feet	Diame	eter	Tons	No. Sa	cks of	ND CEMENTING	· · · · · ·	ds Used		
tion 4			eter		No. Sa	1	ND CEMENTING	· · · · · ·	ds Used		
etion 4	in Feet	Diame	eter	Tons	No. Sa	cks of	ND CEMENTING	· · · · · ·	ds Used		
tion 4	in Feet	Diame	eter	Tons	No. Sa	cks of	ND CEMENTING	· · · · · ·	ds Used		
tion 4	in Feet	Diame	eter	Tons	No. Sa	cks of	ND CEMENTING	· · · · · ·	ds Used		
tion 4	in Feet	Diame	eter	Tons	No. Sa	cks of	ND CEMENTING	· · · · · ·	ds Used		
Depth	in Feet	Diame	eter	Tons	No. Se Cen	cks of	ND CEMENTING	· · · · · ·	ds Used		
Depth From	in Feet To	Diarne Hole in	eter	Tons Clay	No. Se Cem	ecks of hent	ND CEMENTING	Method		10	
Depth From stion 5	in Feet To	Diame Hole in	tor	Tons	No. Se Cen	nent Sing REC	ND CEMENTING	Method	ense N		
Depth From tion 5 me of eet an	in Feet To Pluggin	Diame Hole in	ter in.	Tons	No. Se Cen	ecks of hent	ND CEMENTING	Method  Lic  Sta	eense N		
Depth From stion 5 me of ceet an as of C	in Feet To Pluggin, d Numb	Diame Hole in	ter in.	Tons Clay	PLUGG	ecks of hent  BING REC  City	ND CEMENTING	Method Lic Sta	ense N teughage		
Depth From stion 5 me of ceet an as of Congging	in Feet To Pluggin, d Numb	Diame Hole in	ter in.	Tons Clay	PLUGG	ecks of hent  BING REC  City	ORD	Method Lice Sta ype of rollugged	eense N teughage		19
tion 4 Depth From tion 5 me of eet an as of Congging	in Feet To Pluggin, d Numb	Diame Hole in	ter in.	Tons Clay	PLUGG	ecks of hent	ORD  T Date P Cement Pl	Lic Sta ype of ro lugged	eense N teughage	as folle	19 ows:
Depth From stion 5 me of ceet an as of Congging	in Feet To Pluggin, d Numb	Diame Hole in	ter in.	Tons Clay	PLUGO	ecks of hent  BING REC  City	ORD  T Date P Cement Pl	Lic Sta ype of ro lugged	eense N teughage	as folle	19
Depth From etion 5 me of ceet an as of Cagging	in Feet To Pluggin d Numb Clay used method approve	Diame Hole in	eter in.	Tons Clay  Tons of R	PLUGO	ecks of hent	ORD  T Date P Cement Pl	Lic Sta	eense N teughage	as folle	19 ows:
Depth From etion 5 me of reet an ans of Cangging agging	Pluggin d Numb	g Contracter used d by:	tter in.	Tons Clay  Tons of R  Basin Sup	PLUGO	ecks of hent	ORD  T Date P Cement Pl	Lic Sta	eense N teughage	as folle	19 ows:
Depth From etion 5 me of reet an ans of Cangging agging	Pluggin d Numb	g Contracter discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed discussed dis	tter in.	Tons Clay  Tons of R  Basin Sup	PLUGO	ecks of hent	ORD  T Date P Cement Pl	Lic Sta	eense N teughage	as folle	19 ows:
etion 4 Depth From  tion 5 me of eet an as of C gging gging	Pluggin d Numb	g Contracter used d by:	tter in.	Tons of R  Basin Sur	PLUGO	ecks of hent	ORD  T Date P Cement Pl	Lic Sta	eense N teughage	as folle	19 ows:

### LOG OF WELL

Depth in		Thickness	Color	Type of Material Encountered
From	То	in Feet		appe of Manager Incommented
0	1	1		Set1
2	23	22		Caliche
23	70	47		Sand
70	115	45		Sand, dry
115	230	225		Send, water
290	235	5		Sandy olay
235	250/	15		Sand and gravel
250	259	9	red	Clay
				L S Elev
				Depth to K Trc 250r Elev of K Trc 3883r
		·		Elev of KTrc_3/8
				17 22 19 22 444 /
				Loc. No. 17.33, 12 . 33 404 1
	<del>.</del>			Hydro. SurveyField Check
				SOURCE OF ALTITUDE GIVEN
-				Interpolated from Topo. Shaet
				Determined by Inst. Levoling
				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 Drillon

1-1880 Thre 1884 ComB. S

17.33.12.334

# FIELD ENGR. LOG

### STATE ENGINEER OFFICE

### WELL RECORD

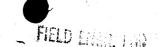
ection	1		(A) Owne	er of well				
			Street and	Number	Donnel'	ly Orilling	Company	
			City			9)		
					der Perm	nit No.	an	d'is located A th
<del></del>			(B) Drilli	ne Contr	actor	of Section	Tice	nse No. 33a
			Street and	Number	**	40111		
			City		dos	306		
		. ]	Drilling w	as comm	enced			New Mexibo
			Drilling w	as comple	eted	eccasber h		19 <mark>59</mark>
	Plat of 640 a	-			44	eccupor v		59
levatio	on at top of	f casing i	n feet above se	a level		Total dep	th of well2	17
tate w	hether wel	ll is shall	ow or artesian_	Shalle		Depth to wat	er upon comple	inon 165
ection						ING STRATA		40,7
No.	Depth in	n Feet	Thickness in		Dec	scription of Water	-Bearing Formation	on .
No.	From	То	Feet					· · · · · · · · · · · · · · · · · · ·
1								
2	165	505	37	hat	er Jen	4		
3								
4								<del></del> -
5		<del></del>						
	<u> </u>							
ection	3			RECOR	D OF CAS	ING		
Dia	Pounds	Threa			Feet	Type Shoe		orations
in.	ft.	in	Тор	Bottom			From	То
73	20		Ng 2012		1 (5.6)	E un se se	Ma shashia	198
-	- KU	1 30	) 0	198	198	Cpou	177	230
	<u> </u>	<u> </u>	<u> </u>		<u> </u>	1		<u> </u>
ection	4		RECOR	OF MUE	DING AN	D CEMENTING		
Dept	h in Feet	Diame	eter Tons	No. Sa	cks of		35-41-3-71-3	
From	То	Hole in	in. Clay	Cem	ent		Methods Used	
						1.0		
***	<u>i</u>		<u> </u>			·		
ection	5			PLUGG	ING REC	ORD		
		Contrac	to=				Liganga Ma	)
					_			******
	-							
	g method d g approved						s were placed a	
rakkmi	R abbrosed	Jy.			_	<del></del>		a Tomowa:
- <del>-</del>			Basin Sup	ervisor	No	From Te	No. o	f Sacks Used
		*****			<b>-</b>			· · · · · · · · · · · · · · · · · · ·
	FOR USE	CATA GO.	TE ENGINEER OF	NLY		1		
Dota	Page - 191	UL LL. PERU OLL	ASTAIL TIMES		1	<del>                                     </del>		
Date	Received			<b>\</b>		1		
	21	:8 HM (	1929 DEC 1 C			<u> </u>		
					<u> </u>			<del></del>
	1-4	A 2 A		· ·		Location	. ~ 0 ~	1 40

### Section 6

### LOG OF WELL

Depth	in Feet	Thickness	Color	Type of Material Encountered
From	То	in Feet	Color	Type of Make in Incommence
0	14-	14		Caliche
14	68	54		Sand (tight)
68	83	15		
83	140	57		Sand (loose)
40	165	25		Sand (tight)
65	202	37		Sand (loose)
		1		Sand (water)
62	217	15		Sand (tight)
-				
	-	1		
		1		
		+		
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	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



### WELL RECORD

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						31		ica
								ate
			Well was	drilled un	der Perm	it No.	# Die	and is located in the
								17S Rge. 33E
- N 51							_	License NoWD-46
			7 1	_				Income Trona
								ite
		.						19
								19
(P	lat of 640 ac	res)	Dimmig w	as comple	.cu	101.01	<del></del>	
levation	at top of	casing in fee	t above se	a level		Total de	pth of well	235
								ompletion 151
ection 2			PRIN	CIPAL WA	TER-BEAR	ING STRATA		
}	Depth in	Feet Th	ickness in		Dec	cription of Water	r-Bearing Fo	rmation
No.	From	То	Feet		Des	cription of water	I-Dearing Fo	imation
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2								
3								
				<del></del>		Mark Control	e www.nj. in it. Union and it.	
4				<del></del>	<del> </del>			
5				<u> </u>			<u> </u>	
ection 3				RECORI	D OF CAS	ING		· · · · · · · · · · · · · · · · · · ·
Dia	Pounds	Threads	Der		Feet	Type Shoe	1	Perforations
in.	ft.	in	Top	Bottom			From	То
14	30	welded	1	238	238	none	118	228
					<u> </u>			
			ļ					
			<u> </u>		<u>. 18 - 41</u>	<u> </u>		· · · · · · · · · · · · · · · · · · ·
ection 4			RECOR	D OF MUD	DING AN	D CEMENTING	<u> </u>	
	in Feet	Diameter	RECOR	D OF MUD		D CEMENTING		Trad
		Diameter Hole in in.		<del>- 1</del>	ks of	D CEMENTING	Methods (	Jsed
Depth	in Feet		Tons	No. Sac	ks of	D CEMENTING	Methods U	Jsed
Depth	in Feet		Tons	No. Sac	ks of	D CEMENTING	Methods (	Jsed
Depth	in Feet		Tons	No. Sac	ks of	D CEMENTING	Methods U	Jsed
Depth	in Feet		Tons	No. Sac	ks of	D CEMENTING	Methods (	Jsed
Depth From	in Feet To		Tons	No. Sac Ceme	eks of ent		Methods (	Jsed
Depth From	in Feet To	Hole in in.	Tons Clay	No. Sac Ceme	eks of ent	<b>DRD</b>		
Depth From	in Feet To Plugging	Hole in in.	Tons Clay	No. Sac Ceme	eks of ent	ORD T	Licens	se No.
Depth From	To To Plugging d Number	Hole in in.	Tons	No. Sac Ceme	eks of ent	DRD T	Licens State	se No.
Depth From	To To Plugging d Number	Hole in in.	Tons	No. Sac Ceme	eks of ent	DRD T	Licens State	se No.
Depth From ection 5 ame of creet an ons of C	To  To  Plugging and Number Clay used	Hole in in.	Tons Clay	No. Sac Ceme	eks of ent	ORD T	Licens State pe of rough	se No.
Depth From ection 5 ame of creet an ons of Clugging	To  To  Plugging and Number Clay used	Hole in in.	Tons Clay	No. Sac Ceme	eks of ent	DRD T Ty	Licens State pe of rough	se No.
Depth From ection 5 ame of creet an ons of Cugging	To  To  Plugging and Number. Clay used method us	Hole in in.	Tons Clay	No. Sac Ceme	ING RECO	DRD Ty Date Plu Cement Plug	Licens State pe of rough	se No
Depth From  ection 5 ame of treet an ons of Clugging	To  To  Plugging and Number. Clay used method us	Hole in in.	Tons Clay	No. Sac Ceme	eks of ent	DRD Ty Date Plu Cement Plu Depth of P	Licens State pe of rough	se Noage
Depth From ection 5 ame of creet an ons of Clugging	Plugging d Number Clay used method us approved l	Contractor	Tons Clay  Tons of Re	PLUGG	ING RECO	DRD Ty Date Plu Cement Plu Legeth of P	Licens State pe of rough	se No
ection 5 ame of treet an ons of C	Plugging d Number. Clay used method us approved l	Hole in in.	Tons Clay  Tons of R  Basin Sup	PLUGG oughage us	ING RECO	DRD Ty Date Plu Cement Plu Legeth of P	Licens State pe of rough	se No
Depth From  ection 5 ame of treet an ons of C lugging	Plugging d Number Clay used method us approved l	Contractor ed by:	Tons Clay  Tons of R  Basin Sup	PLUGG oughage us	ING RECO	DRD Ty Date Plu Cement Plu Legeth of P	Licens State pe of rough	se No
Depth From  ection 5 ame of treet an ons of C lugging	Plugging d Number. Clay used method us approved l	Contractor ed by:	Tons Clay  Tons of R  Basin Sup	PLUGG oughage us	ING RECO	DRD Ty Date Plu Cement Plu Legeth of P	Licens State pe of rough	se No

### Section 6

### LOG OF WELL

Depth	in Feet	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 tight
	154	21	red	shale
153		4		,
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
				1 S Flav 4/24
				L S Elev
				Depth to K Trc 230  Elev of K Trc3894
1 1 1	10 .			
				Loc. No. 17.23.13.31413
	<del></del>			Hydro. SurveyField Check HwP
			<u> </u>	SOURCE OF ALTITUDE GIVEN
		<u></u>		Interpolated from Topo. Sheet 4124
				Determined by Inst. Leveling
•				Other
:			·	
· · · · ·				
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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.

murrel Ce bhat Well Driller

Form	WR-23

## WELL RECORD

Section 1		•	(A) Owner	of well	Potas	sh Company	of America	<b>.</b>	
			1 ' '						y to
			City Car				State		
						nit No. <b>L-188</b> 4 of Section <b>13</b>			
						pon & Port			
			Street and	Number.	Bo	x 1021			
	<u>'</u>		City	Loving	ton		State	lew Mex	ico
			Drilling wa	as comme	enced		August	. 18	1955
	1		Drilling wa	s comple	ted		August	. 18	1955
Elevation		casing in fe				Total de			
	!	is shallow				Depth to wa	ter upon comp	netion	
Section 2				APAL WA	NIEK-DEAR	ING SIKAIA		·	
No	Depth in	To T	hickness in Feet		De	scription of Water	r-Bearing Forma	tion	
1	1 [								
2									:
3									
4									
5									
Section 3	į			RECOR	D OF CA	SING			
Dia	Pounds	Threads	Dept	h	Feet	Type Shoe	Per	rforations	
in.	ft.	in	Тор	Bottom	rect	Type Shoe	From		To
		ļ	_			ļ			
		<b>.</b>	<u> </u>						
Section 4		<u> </u>	PECORD	OF MUI	DING AN	ID CEMENTING	1	<u> </u>	
	in Feet	Diameter	Tons	No. Sa		- CENTER TOTAL			· · · · · ·
From	То	Hole in in	Clay	Cem	ent		Methods Used	,	
	ļ			ļ					
	<u>i</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>				
Section 5	İ				SING REC				
		Contractor					License l	Vоо	
	-					Ту			
						Date Plu			
Plugging	approved	by:			_		gs were placed	as follow	s:
·	i		Basin Supe	rvisor	No	Depth of P	lug Co No.	of Sacks l	Used.
	FOR USE	OF STATE	NGINEER ON	LY					÷
-	:	1	P 30 1955						
Date F	Received	<del></del> -	OFFICE						
		GROUNI	WATER CUPER	VISOR					
		ROS	WELL, N. M MEXIC	PR)	<u> </u>	<del> </del>			
File No.	2-188	0		Use	d & Da	Locatio	n No. 17. 33	3.13.3	343

Depth in		Thickness in Feet	Color	Type of Material Encountered
rom	То	In Feet		4 - 7 -
This	WAS WOI	k done o	n a repair Pe	rmit.
			from 2321 to	
West.	March Care	MITTOR CHO	**************************************	
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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

			(A) Our	er of well	Potash	Company of	lmeric=	
			1 ' '			30x 31	1 1	
								New Mexico
								and is located in the
			1					
								7 S. Rge. 33 E.
-								icense No. WD-22
						the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the 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		<u></u>
Ì			1 -					New Mexico
							· ·	19 48
(P:	lat of 640 ac	cres)	Drilling √	was complete	ed	March 16	<u> </u>	19 48
			n feet ahove se	a level	4128	Total de	nth of well	245
							-	pletion 144
ite wii	emer wen	is sname	ow or artesian	DHGTAVY		Depth to wa	ter upon com	pletion 144
ction 2	<u> </u>	1	PRIN	ICIPAL WAT	ER-BEAR	ING STRATA		
No	Depth in	Feet	Thickness in		De	scription of Wate	r-Bearing Form	ation
	From	То	Feet					
						7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
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tion 3				RECORD	OF CAS	SING		
Dia	Pounds	Threa	· I	pth	Feet	Type Shoe	P	erforations
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		ļ	100	Bottom	V		From	То
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Depth	in Feet	Diame	RECOR	RD OF MUDD	s of			
Depth	in Feet	Diame	RECOR	RD OF MUDD	s of			
Depth	in Feet	Diame	RECOR	RD OF MUDD	s of			
Depth From	in Feet To	Diame	RECOR	RD OF MUDD No. Sack Cemer	ss of ant	D CEMENTING		
Depth From	in Feet To	Diame Hole in	RECOR- ter Tons in. Clay	RD OF MUDD No. Sack Cemer	nt nt NG RECO	D CEMENTING	Methods Use	d
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Depth From etion 5 me of eet an	To  Plugging d Number	Diame Hole in	RECORTER TONS IN. Clay	RD OF MUDD No. Sack Cemes	NG RECC	D CEMENTING  DRD  Ty  Date Plu	Methods Use  License State pe of roughag	No
Depth From etion 5 me of eet an	To  Plugging d Number	Diame Hole in	RECORTER TONS IN. Clay	RD OF MUDD No. Sack Cemes	NG RECC	D CEMENTING  DRD  Ty  Date Plu	Methods Use  License  State  pe of roughage	No
Depth From etion 5 me of ceet an as of Congging	Plugging d Number Clay used method us	Diame Hole in	RECORTER TONS IN. Clay	RD OF MUDD No. Sack Cemes	ns of at	DRD Ty Date Plu Cement Plu Depth of P	License State pe of roughag	No
Depth From etion 5 me of ceet an ns of C	Plugging d Number Clay used method us	Diame Hole in	RECORTER TONS IN. Clay	PLUGGII	NG RECC	DRD  Ty  Date Plu  Cement Plu  Depth of P	License State pe of roughag	No
Depth From etion 5 me of ceet an as of Congging	Plugging d Number Clay used method us approved	Diame Hole in Contract by:	RECORTER TONS ON Clay	PLUGGII	ns of at	DRD  Ty  Date Plu  Cement Plu  Depth of P	License State pe of roughag gged gs were placed	No
Depth From etion 5 me of ceet an as of Congging	Plugging d Number Clay used method us approved	Diame Hole in Contract by:	RECOR	PLUGGII	ns of at	DRD  Ty  Date Plu  Cement Plu  Depth of P	License State pe of roughag gged gs were placed	No
ction 5 me of reet an ns of C	Plugging d Number Clay used method us approved	Diame Hole in Contract by:	RECORTER TONS ON Clay	PLUGGII	ns of at	DRD  Ty  Date Plu  Cement Plu  Depth of P	License State pe of roughag gged gs were placed	No
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Depth	ln Feet	Thickness		
From	To	in Feet	Color	Type of Material Encountered
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		13 Z 1 1		
				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
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				Interpolated from Topo. Sheet
				Determined by Inst. LevelingX
				Other
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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.

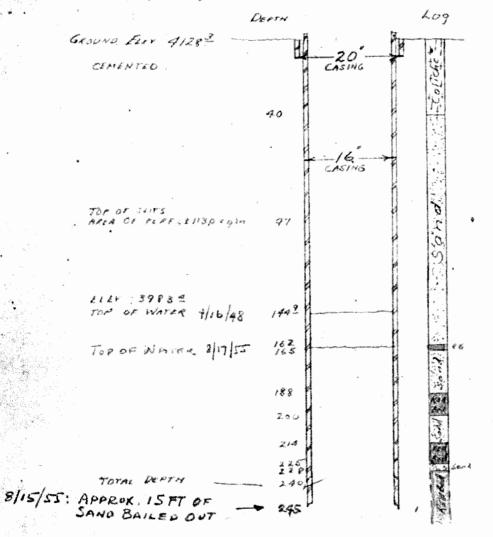
NO. 3 CAPROCH WATER WELL NO L-1882 LEA COUNTY BASIN

Orilled FeB 2, 1948 to MAR 16, 1948

BY - BUCK THICKING

LOCATION SE%, SW/4 SE% SECT 13 TITS K33E

COURS ELEV. 4129 05/1



FILED

SEP 12 1958

OFFICE GROUND WATER SUPERVISOR

APPROVED BY	LOG OF WO3 CAPROCK	POTASH COMPANY OF AMERICA CARLSBAD, NEW MEXICO
	WATER WELL	DRAWN BY DEP EATE DRAWING NO.
1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		CHECKED BY 3-/374
	SCALE- /"= 50" DATE- 8-24-55	DIRECTED BY ARD

### WELL RECORD

Section 1				(A) Own	er of well	Fota	st Co. of an	ant as		
							ox_3I			
				City	Carlabad	•		St	ateNe	# 1:0×:00
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		5 L		SE 1	4 5 1/4	SE 1/2	of Section 7	Twp.	_I7_S	Rge. 33 F
							& P Drilling	-		
}							121 S. Love	•		
			,	City	Loving	ton		St	ateNev	· Vexteo
		·	] ]	Drilling	was comm	enced	Sept. 22			19_6}_
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	lat of 640 a						-			
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State wh	ether well	l is shall	ow or	artesian	- PANI	<u></u>	Depth to wa	ter upon c	ompletio	n
Section 2				PRII	NCIPAL WA	ATER-BEAR	ING STRATA			
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	i	<u> </u>							<del>-</del> -	
Section 5					PLUGG	SING REC	ORD			
		Contrac	ton					Licor	so Ne	
Fons of Clay used Tons of Roughage used Type of roughage Plugging method used Date Plugged 19										
	approved						Cement Plu			
tueging	approved	Dy.				_			- icch us ic	1
			<del></del>	Basin Su	pervisor	No	From 7	ro	No. of Sa	acks Used
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File No.	L-18	82			Use	nd d	Con Hocatio	n No. 🚄	<u>7.33,/</u>	3.43 <u>4</u>

Depth in Feet		Thickness	G-1	Mana of Material Phonometers			
From	To	in Feet	Color	Type of Material Encountered			
				This was a repair Job-on Potash Mine we			
4.1				Cleaned & Drilled Fr 220 ft to 2h0 ft.			
				Run Pipe Scratcher- Set Il ft. of Il in			
	*			easing -in Sottom of Hole & Bailed.			
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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.

Otis H. Pruett

Section	1				(A) O	on of moll	Po	+00	h Company of	. 4		
			T						H SOMPANY U			
												Mexico.
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	!											w Mexico
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L												19.52
	Plat of 64		-									
	_		_									259
State w	hether w	ell is	shalle	ow o	r artesian.	Shall	OW		Depth to wat	ter up	on completi	on_147
Section	2				PRIN	ICIPAL WA	ATER-BE	ARII	NG STRATA	** .		
	Depth	in Fe	et	Thi	ckness in	1		-				
No.	From		To	1	Feet			Desc	cription of Water	-Beari	ng Formation	
1	•	+-										
2	120	135	<b>L</b>	_1	5	_Br. ha	<del>rd ch</del> u	nky	sand			
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3		ــــــ								-		
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5		<u>.l</u>										
Section	3					RECOR	D OF C	ASI	NG			
Dia	Pound	<u> </u>	Threa	de	De	oth	I	ì			Perfora	ations
in.	ft.		in	us	Top	Bottom	Feet		Type Shoe		From	То
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-U U, H						-208			· · · · · · · · · · · · · · · · · · ·			
Section					RECOR			ANI	CEMENTING			
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					<u> </u>							
Section (	5					PLUGG	SING RI	ECO	RD			
Name of	f Pluggir	ng Co	ntract	tor						1	icense No	
Street a	nd Numl	ber					City			S	tate	
Cons of	Clay use	d			Tons of R	oughage u	ısed		Тут	e of	roughage	
Plugging	g method	used							Date Plu	gged_	· .	19
Plugging	g approve	ed by	:						Cement Plug	s wer	e placed as	follows:
							Γ		Depth of Pl	ug		
					Basin Sup	ervisor		No.		ю	No. of	Sacks Used
	FOR III	SE OF	STAT	E KN	GINEER O	NLY	7 [					
	2011 01	VE	~~~									
Date	Received	l	(ovem)	oer .	1, 1955							
		•			_,		-					
							'		<u> </u>			
							-					J.
File No	L_	1883				_UseIn	d. & D	lom	Location	n No.	17.33.13.	44444

**LOG OF WELL** 

	in Feet	Thickness	Color	True of Material Processing
From	То	in Feet	Color	Type of Material Encountered
0	20	20		Lime & Caliche
20	50	30		hard fine gand
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. hard chunks sand
135	145	10		fine sand
145	147	2		bard 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 bed
219	239	20		br. muddy sands
239	241/	3		course gravel
241	259			red bed-some gravel
			<del></del>	LSElev _ 4//23r
				7/23
				Elev of K Trc 24/
				-11002
				ty. 17.33.13.4444
				Loc. No.
				Hydro. Survey Field Check
w				SOURCE OF ALTISUAR AUGEN
				SOURCE OF ALTITUDE GIVEN
				Interpolated from Topo. Sheet
	·			Determined by Inst. Leveling Other

/s/ Emmett	Barron	
	Well Driller	

1-1883

17.33.13.444

Form WR-23 ( 5.5.

#### STATE ENGINEER OFFICE

# WELL RECORD

			(A) Uwne	r or wen				
ŀ			Street and			Company of A		
.	1.0		City				State	an Marie
			•			nit No. 2-195	and	is located in th
							Twp. 17.8	
							Dele Colicens	
.			Street and			<b>*</b>	WELL COLICCIS	C IVO. HTMAN
·		1.1					State	- *************************************
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			Drilling w	as comme	enced		***	10 EE
(P	lat of 640 ac	res)	Drining w	as comple	100			B PROPERTY.
evation	at top of	casing in fee	et above sea	a level	······································	Total dej	oth of well	
							ter upon completi	
ction 2			PRIN	CIPAL WA	TER-BEAF	ING STRATA		in the state of the
1	Depth in	Feet Th	ickness in				Descine Rome stic	
No.	From	To	Feet		De	escription of water	-Bearing Formation	
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ction 3	3			RECOR	D OF CA	SING		
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in.	ft.	in	Тор	Bottom	reet	Type Shoe	From	То
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		:						
			PECOP	D OF WILL	DING A	ND CEMENTING		
				<del></del>		ND CEMENTING		
Depth	in Feet	Diameter Hole in in.	RECOR Tons Clay	D OF MUI	cks of		Methods Used	
Depth			Tons	No. Sa	cks of		Methods Used	
Depth	in Feet		Tons	No. Sa	cks of		Methods Used	
Depth	in Feet		Tons	No. Sa	cks of		Methods Used	
Depth	To To		Tons	No. Sa	cks of		Methods Used	
Depth	in Feet		Tons	No. Sa	cks of		Methods Used	
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Depth From	To To Plugging and Number.	Hole in in.	Tons	No. Sa Cem	cks of hent	CORD	License NoState	
Depth From ection 5 me of reet arns of (	To To Plugging and Number. Clay used	Hole in in.	Tons Clay	PLUGG	cks of hent  BING REC  City used	CORD	License NoState	
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Depth From	To To Plugging and Number. Clay used	Hole in in.  Contractor	Tons Clay	PLUGG	cks of hent  BING REC  City used	CORD Ty Date Plu Cement Plu	License No	19
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ction 5 me of reet ar ms of (	Plugging and Number. Clay used as method us approved	Hole in in.  Contractor  ed  by:	Tons Clay  Tons of R	PLUGG	cks of lent City City Ised	CORD  Ty  Date Plu  Cement Plu  Depth of P	License No	19follows:
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Depth in Feet		Thickness	Color	Type of Material Encountered					
From	То	in Feet	Color	Type of Material Encountered					
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CATTO A POST DELL'ON COMPANY

Well Driller

FORM WR-23 FIELD TGR. LOG

#### STATE ENGINEER OFFICE

# WELL RECORD

ection 1			(A) Owne	n of		POTAS	H COMPAI	ny of A	TERICA
						Box 31			
	1		City	Coul cha				State	New Maxico
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			Wen was	AR 1/.	SR 1/2	of Section I	3 Tur	. 17 5	Rge. 33 E
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				•		I S. Love			15C 110
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			Drilling w			1 mm 9T			19
	lat of 640 ac		_	_					
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ate wh	ether well	is shallow	or artesian_		Shallo	Depth to wa	ater upor	comple	tion
ction 2			PPINA	CIPAL WA	TER-REAR	NG STRATA			
ction 2		Theat	Thickness in	OII AL WA					
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ction 3				RECOR	D OF CAS	ING			
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ction 4			RECOR	OF MUE	DING AN	D CEMENTING			
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ction 5				PLUGG	ING REC	ORD			
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ngguig	approved	by.						pracetr a	
	18011	*11 3	Om Basin Sup	ervisor	No	From	To	No. o	f Sacks Used
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	FOR USE	OF STATE	ENGINEER OF	NLY	]				
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Depth i		Thickness	Cal	
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				This was a clean out job, on a Domesti well, for a Potach Mine.
				Fished out suction pipe, and cleaned well from 70 ft to 100 ft.
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Well Driller



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Ĺ								19.57
(F	Plat of 640 a	cres)	Dining W	as compr			<del></del>	10 34
Elevation	n at top of	casing i	n feet above sea	a level		Total de	pth of well	26 A.
State wh	nether wel	l is shall	ow or artesian_	Shalles	ļ	Depth to wa	ter upon comple	tion 180 Ct.
Section 2	2		PRIN	CIPAL WA	ATER_REAR	NG STRATA		
Jeenon 2	Depth in	Foot	Thickness in	OIL VI			4	
No.	From	To	Feet		Des	cription of Water	r-Bearing Formatio	n
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2	180	200	50	- Wate	r Sand			· · · · · · · · · · · · · · · · · · ·
3								
4								
5								
Section 3				RECOR	D OF CAS	ING .		
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Dia in.	Pounds ft.	Threa in		Bottom	Feet	Type Shoe	From	То
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	l	1	<u> </u>		<u> </u>			
ection 4	ı		RECORI	OF MUI	DDING AN	D CEMENTING		
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From	To	Hole in		Cem			Methods Used	
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ection 5	•			PLUGG	SING RECO	ORD		
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ons of (	Clay used		Tons of Ro	oughage u	ısed	Ty	pe of roughage_	
lugging	method u	sed	· · · · · · · · · · · · · · · · · · ·			Date Plu	gged	19
lugging	approved	by:				Cement Plug	gs were placed as	follows:
					No.	Depth of P	lug	Sacks Used
			Basin Supe	ervisor	No.	From 7	No. of	Sacas Used
	FOR USE	OF STA	E INC NEED OF	D				
Date I	Received		AUG 1 1957	2 1	_			
			OFFICE &	1/1				
			IND WATER SUPER					
	1 21	22	OSWELL, NEW MEXIC				10 33	17 12444
	1-7/	2/1/	,	TT ///		Y	_ NT- /// 47	- / / / LUUU

Depth i	n Feet	Thickness	g-3	Type of Material Processing				
From	То	in Feet	Color	Type of Material Encountered				
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2	12	30	•	Callighe				
12	18	- 6		Bender				
18	1.80	1/2		Sand, Shell, & Clay				
180	200	20		Walter Carl				
200	221	24	<u> </u>	Sand, Shell, & Gravel				
224	226	2		Red Sed				
***	640			1 800 500				
				L S Elev				
				Depth to KTrc				
				Elev of K Tree 983				
			· · · · · · · · · · · · · · · · · · ·					
			*	17 22 17 12444				
				Loc. No. 17.33.17.12444				
				Hydro. Survey Field Check (NOT FOUND)				
		1						
	-							
				SOURCE OF ALTITUDE GIVEN				
				Interpolated from Topo. Chilaf				
			<del></del>	Determined by Inst. Leveling				
			· · · · · · · · · · · · · · · · · · ·	Other				
	4. + +							
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Jack (Well Driller

1-3622

17.33.17

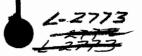


ection 1			(A) O	er of well_	Kew	AMER OLL C	ANPART		
				er or weil_ l Number_					
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INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be enswered 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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#### 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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# 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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(F	Plat of 640	acres)		g v	rus compi				10
levation	n at top o	f casing i	n feet a	above se	a level		Total de	pth of well	0
ate wh	ether we	ll is shall	ow or a	artesian.	Shallow		Depth to wa	ter upon compl	etion 160
ction 2	2			PRIN	ICIPAL WA	ATER-BEA	RING STRATA		
	Depth i	n Feet	Thick	ness in	1011712 117			1.00	
No.	From	To		eet		D	escription of Wate	r-Bearing Formation	on
1				h0 setur s			_	- 45	73 11 11 11 11 11 11 11 11 11 11 11 11 11
2	158	198	140	,	zat	er Sand	-diraysl		
3									
1			,						
5					<u> </u>				Tallet .
ction 3	3				RECOR	D OF CA	SING		
Dia	Pounds	Threa	٠,٠	De		1	1	Perf	orations
in.	ft.	in		Top	Bottom Feet		Type Shoe	Perforations To	
7	32	8	_	0	230	230	None	3/0	930
•					830		AU	160	230
_									
						1			-
					<del>'</del>				
ction 4				RECOR	D OF MU	DING A	ND CEMENTING		
	in Feet	Diame Hole in		Tons Clay	No. Sa Cem			Methods Used	
From	То	note ii	т.	Clay	Cen	lent			
	-								
	ļ								
	1	1							
ction 5					PLUGG	ING REC	ORD		
		Contract	tor					Tigongo Me	D
	-							State	
						•			
	-								19
									grant of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control
RRTING	approved	by:				_	· · · · · · · · · · · · · · · · · · ·	gs were placed a	s топоме:
				byla-#ne	APUISAP 1	N	Depth of P	No. o	f Sacks Used
				asin Sup		<b>-7</b>	11011		
	FOR US	OF STAT	ENG!	NEER O	NLY				
			ANAD	14 19	58	_			
Date I	Received				T				
			ין מואות ע מואות ע	OFFICE VATER SU	PRVISON				
			ILOSWEL	L, NEW M	EXICO CAN				
le No.	7	7/	33		Use	oil	Tanatia	n No	313201 <b>3 3</b> 3 3 6
IP IVO.	///				USE		L0cat10		

LOG OF WELL

Depth		Thickness	Color	Type of Material Encountered
From	То	in Feet	Color	Type of Material Encountered
0	8	8		Rook
8	12			Galeche
12	20	8		Rock
20	112	92		Sand
112	158	16		Sandy Clay
158	198	1,0		Water Sand & Gravel
198	220	22		Sand
550	230	10		Red Clay
•••	= 34			THE VANT
				3/
				L S Elev
i		<del>  -</del>		Depth to K Trc 22 07  Elev of K Trc39237
				Elev of KTrc3923
				54 17.33.23:3/320°
				Loc. No.
	-			Hydro. SurveyFiald_ChackX
				nyuro: Justey
			****	
				SOURCE OF ALTITUDE GIVEN
				interpolated from Topo. Sheet X
				Dete: mined 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

	,	 
We	11 Driller	

L-3133

17.33.23.310

# Form WR-23



#### STATE ENGINEER OFFICE

# WELL RECORD

Section 1	. :		(A) Owne	e of mall		437. n		
			Street and	Number	Pn	c 758	eus Co.	<del>-, </del>
1							State New Mex	
							33 and is locate	
							3 Twp. 17 5 Rge.	
			(B) Drilli	ng Contra	actor	A P Drillin	Co. License No.	4 CC
			1	Number.	1121 5			
			City	Lovingt	OB .	·····	State New Mex	dee
1 .	L L							
	2-4 -4 640		☐ Drilling w	as comple	ted	Sapt 3		1958
•	lat of 640 ac	•	Foot about an	a lovol			pth of well 230 ft	
	-	-					ter upon completion 70	
		12 SHRYTON				-	ter about combienoit	£
Section 2				CIPAL WA	TER-BEAR	ING STRATA		<del>-,,</del>
No.	Depth in	To To	Thickness in Feet		De	scription of Water	r-Bearing Formation	
1		i	#1.41					
2			130,2 = 1.0,					
3	-		.,	,				
4								-
5					<del> </del>			· · · · ·
Section 3		1			D OF CA	SING		<del></del>
Dia in.	Pounds ft.	Threads in	Top	Bottom	Feet	Type Shoe	Perforations T	·o ····
7 Inc	bala			-		L		
7 - 116	11010				10-0	sing		
						ž		
		<u> </u>				1		
Section 4			RECORI	D OF MUD	DING AN	ID CEMENTING		
-	in Feet	Diameter		No. Sa				
From	To	Hole in i		Cem			Methods Used	
							, , , , , , , , , , , , , , , , , , , ,	
	i .	<u> </u>		<u> </u>				
Section 5				PLUGG	ING REC	ORD		
		Contractor					License No.	
							State	
					-		pe of roughage	
	method us			oug.iugo u			gged	
-	approved		1 1				gs were placed as follows:	
					,	Depth of P		
		-	Basin Sup	ervisor-	No		No. of Sacks Us	ed
7, 1 *	FOR USE	OF STATE	ENGINEER OF				rangar repaid	
1		1					23 200 1 2 2 2 2 2 2	
Date I	Received	S	CP 26 1958	2//				
4			OFFICE	V				
,			D WATER SLIFER WELL, HEW MEXIC					
	1-31	the graph of			5		n No. 12.33.23.3	11
File No.	./د - بر			_Use_ <i>_//_</i> _	W.W	Locatio	n NO.//	· <u>v</u>

# LOG OF WELL

Depth i	in Feet	Thickness		
From	То	in Feet	Color	Type of Material Encountered
		7. F. Ji.		This is an old well drilled March 1956
		20.00		and later plugged, well was 230 ft. of 7"
		,		casing. We drilled out plug, clean out
1 1		:		and bailed out hole; to be used for oil we Drilling purposes
-				
	**			
		:		
;	1			The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the 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
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		2.1"		
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		4. V		
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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.

Urady	Backus
	Well Driller

# WELL RECORD

levation a	_	casing in fe	City	drilled und with the second drilled und with the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under the second drilled under t	Hobbs nder Perm SW 1/ actor C1	nit No. 1-313	StateN	is located in t
levation a	t of 640 s	casing in fe	Well was	drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled under the drilled unde	actor C1	nit No. 1-313 of Section	and 23 Twp. 178	is located in t
levation a	t of 640 s	casing in fe	(B) Drill Street an City Drilling	ling Contr d Number was comm	actor C1	of Section	23 Twp. 178	Rge. 33E
evation a ate whet	t of 640 s	casing in fe	(B) Dril Street an City Drilling	ling Contr d Number was comm	actor C1	ayton Water		
evation a	at top of	casing in fe	Street an City Drilling	d Number				
evation a	at top of	casing in fe	City Drilling	was comm				
evation a	at top of	casing in fe	Drilling	was comm			<u> </u>	
evation a	at top of	casing in fe					State	
evation a	at top of	casing in fe	- Drilling	1				
ate whet	_			was comple	eted##	TT Leobened	11-21-59	19
ate whet	_		et above s	ea level	4144	Total d	epth of well	2301
		l is shallow	3 2				ater upon complet	
ction 2		12 %						
				VCIPAL WA	A I EK-BEAK	ING STRATA		
No	Depth in	To T	hickness in Feet		De	scription of Wat	er-Bearing Formation	1
	-							
L				* Se	• origin	al well reco	rd.	
2								
3						· · · · · · · · · · · · · · · · · · ·		
<b>.</b>						1		
5					1.00			-
-4: 0	-			DECO	RD OF CAS			
ction 3					TO OF CAS	oing		4
Dia in.	Pounds ft.	Threads	Top	Bottom	Feet	Type Shoe	From	rations
						1.		
20	0 & 23	8		230	230	-		
		-						
		<del></del>		-				
					<u> </u>	1	<del></del>	
ction 4			RECO	RD OF MUI	DDING AN	D CEMENTING	<u> </u>	
Depth in	n Feet	Diameter	Tons		cks of		Methods Used	1
From	То	Hole in in.	Clay	Cen	nent		memous oseu	
		3				None		
,		<u> </u>		1				
ction 5				PLUGG	SING REC	ORD		
	NT	Canatana atam					License No.	
	-	Contractor r					State	
							pe of roughage	
	•	sed	IONS OI I	toughage t			ugged	
00 0							gs were placed as	
igging a	pproved	by.						Tonows:
			Basin Su	nomrigo#	No	From	Plug To No. of	Sacks Used
		72H	THANT	4	<b></b>	FIOII	10	
. 1	FOR USE	OF STATE	MCINEER C	NLY		_		
		701440 A	IF ENCINE	VISA				
Date Re	ceived							
		AM 8: 20	TC VON	1828		1		

	in Feet	Thickness		
From	То	in Feet	Color	Type of Material Encountered
				See original well record.
				SAR ALTERNAT MALL PREDITY
	<del></del>	<del></del>		
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PHILLIPS PWEED DIRECOMPANY



Southwest Potash Co.

Box 472

# 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.

Land Commissioners Land Commissioners Prospectors No. M2902

(A) Owner of well.

Street and Number..... Carl sbad __ State N. M. City ... Well was drilled under Permit No..... ....and is located in the SE 1/4 SE 1/4 NE 1/4 of Section 25 Twp. 17 S Rge. 33E T. M. Theriac (B) Drilling Contractor..... ..... License No...... # 5-6-2-153-5 P.O.Box 1434 Street and Number..... Hobbs State N. City ..... 19_50 Drilling was commenced..... April 8 April 21 Drilling was completed 19 50 (Plat of 640 acres) 230 Total depth of well..... Elevation at top of casing in feet above sea level State whether well is shallow or artesian ______Depth to water upon completion 137 (reported) PRINCIPAL WATER-BEARING STRATA Section 2 Depth in Feet Thickness in Description of Water-Bearing Formation No. Feet From To 137 187 Tertiary Sands and gravels 2 3 5 Section 3 RECORD OF CASING Depth Perforations Dia Pounds Threads Feet Type Shoe Top 1 Bottom From in. in To 94'2" 13 3/8 New seamless 194'8" Bethleham 193'4" Texas Pattern RECORD OF MUDDING AND CEMENTING Section 4 Depth in Feet Diameter Tons No. Sacks of Methods Used Hole in in Clay Cement From PLUGGING RECORD Section 5 Name of Plugging Contractor.... License No.. Street and Number... ___ City___ __ State..... ____Tons of Roughage used_____ Tons of Clay used ..... Type of roughage... Plugging method used... _Date Plugged___ Plugging approved by: Cement Plugs were placed as follows: Depth of Plug No. of Sacks Used Basin Supervisor From FOR USE OF STATE ENGINEER ONLY December 29, 1952 Date Received L1695 Location No. 17.33.25.244 4/4 Use_

#### LOG OF WELL

Depth	in Feet	Thickness	0-1	Type of Material Procuntaged		
From	To	in Feet	Color	Type of Material Encountered		
0	18			Hard crust top soil, caliche various hardnes		
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 san		
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 sh		
L74	180			Clear, brown, red and orange 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 quantit		
190	200			Solid red bed, sand disappearing fast		
200	225			Red bed solid, no sand encountered.		
				[S Elev 4093r		
				Depth to K Trc 190r Elev of K Trc 3903		
				Elev of KTrc_3903/		
				17.33.25 24444		
				Loc. No		
				Mydra. SurveyField Check		

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

т.	М.	Theria	ıc				
		Well 1	Oriller		 	 	_
		OF ALTI					
Interpolati	ed fr	om Topo	Sheet	$\subseteq X$			
Determin	ed by	/ Inst. L	eveling				
Other				<u> </u>			

17.33.25.244

# WELL RECORD

Philli tate Lease well

			City		Midle	ınd	State _	Cexas
								is located in the
								Rge. 33 E
			Street and	Number	Bo	x 637		
			City	·	Ro	sppa	State	lew Mexico
			Drilling w	as comme	enced	Octo	ber 21	19.57
(PI	lat of 640 ac	res)	Drilling w	as comple	ted	Octo	ber 23	19.57
Elevation	at top of	casing in f	leet above sea	level		Total dep	pth of well	210
							ter upon comple	
Section 2			PRIN	CIPAL WA	TER-BEAR	ING STRATA		
No.	Depth in	Feet 7	Thickness in Feet		Des	scription of Water	-Bearing Formation	on
1	None							
2	*104*							
3							·	
4								
5			1					
Section 3			l Den		D OF CAS	ING	Porf	1:
Dia in.	Pounds ft.	Threads in	Top	Bottom	Feet	Type Shoe	From	orations i To
III.	16.		1	Dotton		-		
								<del></del>
Section 4	JA 915	~	RECORI	OF MUD	DING AN	ID CEMENTING		
	in Feet	Diameter		No. Sac		-		
From	To	Hole in ir		Cem			Methods Used	
			-	1				
				•				
Section 5					SING REC			
Name of	Plugging							
Name of Street and	Plugging d Number				_ City		State	
Name of Street and Fons of C	Plugging d d Number		Tons of Ro	oughage u	_ City	Туј	State pe of roughage_	
Name of Street and Fons of C	Plugging d d Number		Tons of Ro	oughage u	_ City	TyjDate Plu	State pe of roughage_ gged	19
Name of Street and Fons of C Plugging	Plugging d d Number	sed	Tons of Ro	oughage u	_ City	TyjDate Plu	State pe of roughage_	19
Name of Street and Fons of C Plugging	Plugging of Number Clay used method us	sedby:	Tons of Ro	oughage u	_ City	Tyj Date Plu Cement Plug Depth of P	State pe of roughage gged gs were placed a	19
Name of Street and Fons of C Plugging	Plugging d Number Clay used method us approved	by:	Tons of Ro	oughage u	_ City	Tyj Date Plu Cement Plug Depth of P	State pe of roughage gged gs were placed a	19 s follows:
Name of Street and Fons of C Plugging	Plugging d Number Clay used method us approved	by:	Tons of Ro	oughage u	_ City	Tyj Date Plu Cement Plug Depth of P	State pe of roughage gged gs were placed a	19 s follows:
Name of Street and Fons of C Plugging Plugging	Plugging d Number Clay used method us approved	by:	Tons of Ro	oughage u	_ City	Tyj Date Plu Cement Plug Depth of P	State pe of roughage gged gs were placed a	19 s follows:
Name of Street and Fons of C Plugging Plugging	Plugging d Number Clay used method us approved	by:  OF STATE	Tons of Roman Superior Control of Page 1957	ervisor	_ City	Tyj Date Plu Cement Plug Depth of P	State pe of roughage gged gs were placed a	19s follows:
Name of Street and Fons of C Plugging Plugging	Plugging d Number Clay used method us approved	of STATE	Tons of Ro	ervisor	_ City	Tyj Date Plu Cement Plug Depth of P	State pe of roughage gged gs were placed a	19 s follows:

Depth i	n Feet	Thickness	<b>a</b>	Type of Material Encountered				
From	To	in Feet	Color	Type of Material Encountered				
0	1	1		soll				
1	16	15						
16	210	194		caliche dry send				
_								
		<del></del>						
				7				
			· · · · · · · · · · · · · · · · · · ·					

Well Driller



# WELL RECORD

Section 1				(A) Owne	of	El Pa	so Natural G	as Compan	(A	
				Street and			Box 1492		·	
	- 1	İ		City	Paso			Ç.	oto Texas	
							nit No. Misc. 2			
	-						4 of Section			
		<del> </del>					bott Bros.			
	- 1						Box 637		- License No	*
	!_			City	loppe			St	ate New Me	xico
							uly 22, 1958			
	lat of 640 a	-		_						
Elevation	at top of	casing i	n fee	et above se	a leveL		Total dep	oth of wel	244'	
State wh	ether well	l is shall	ow o	r artesian_	Shallow		Depth to war	ter upon c	ompletion	2041
Section 2				PRIN	CIPAL WA	ATER-BEAR	ING STRATA			
	Depth in	Feet	Th	ickness in		T.	econintian of Water	Possing Fo		
No.	From	To		Feet		De	scription of Water	-Bearing F	rmation	
1	185	228		43	Water	Sand				
2	-200				42041	Bana				
3			/-							
4								<del> </del>	<del></del>	· · · · · · · · · · · · · · · · · · ·
			_							
5			1							· ·
Section 3					RECOR	D OF CA	SING			
Dia	Pounds	Threa		Der		Feet	Type Shoe		Perforations	
in.	ft.	in		Top	Bottom		13pt 2	From		То
6 5/8				0	244	244		168		244
		<u> </u>				<u> </u>				
Section 4				RECOR	D OF MUI	DING A	ND CEMENTING			
	in Feet	Diame	tor	Tons		cks of	and the same			
From	To	Hole ir		Clay		nent	M X PA	Methods	Used	
	<u> </u>	-			<del> </del>					
		1								
	<del> </del>				1			······································		<del></del>
	}	<b>-</b>								
		·								
Section 5					PLUGE	ING REC	ORD			
							Carlo May Sag	Licen	se No	
Street an	d Number	r				City		State.		
Cons of C	lay used.			Tons of R	oughage u	ısed	Туј	pe of roug	hage	
Plugging	method u	sed					Date Plu	gged		19
Plugging	approved	by:					Cement Plug	gs were pla	ced as follow	vs:
						N	Depth of Pl	lug	No. of Sacks	Tlend
				Basin Sup	ervisor	<b>-,</b>	From T	o	TO. OF DECEM	
	FOR USE	of STA	E	chiese b	NLY					
		I	IL0	INTRIO			1.			
Date F	Received _	<b>431770</b>	733	ATE ENGIN	18					
		12.21	1.1	E HAM I	nic.					
		ر ی. د د	10	COM !	ioi					V.
	m.			0	· · · Q	11	Jon. Location		2 2 2	1
File No.	VISC	. L-L	-5	0	_Use 🚅	2401	Location Location	n No.∠∠.	<u> </u>	126

->6	ectio	n h

#### LOG OF WELL

	in Feet	Thickness	Color	There are Market at November 2
rom	То	in Feet	Color	Type of Material Encountered
0	1	1		Soil
1	18	17		Caliche
18	80	62		Sand
80	85	5		Sand rock
85	125	40		Send
25	185	60		Tight sand and Rock
.85	228	43		Water, sand
28	244	16		Sand and Red Clay
				The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the 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
				L S Elev
				L S Elev
				Depth to K Trc 39 4 4 re
				I
				Loc. No. 17. 33, 29. 222 22
				Loc. No / / > 3
			·	Hydro. SurveyField Check
				SOURCE OF ALTITUDE GIVEN
	·····			Interpolated from Topo. Sheet
	· · · · · · · · · · · · · · · · · · ·			Determined by Inst. Leveling
		· ·		Other
	-			
	i			
				and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t

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

Street or	1 OSL OTTICE A	ddress				Owner	's Well No.	
Well was drilled	under Permit	No			_ and is located	in the:		
a	_ ¼ ;	/4 1/4	¼ of Section	on	Township	Ran	ge	N.M.P.M
b. Tract	No	of Map No.		of the				
c. Lot No Subdiv	o vision, recorde	of Block No		of the	ounty.			
						y stem		
B) Drilling C	ontractor					_ License No		
ddress								
							Size of I	nolein
levation of lar	id surface or			at wel	l is	ft. Total depth	of well	ft
ompleted well		shallow 🔲 as	rtesian.		Depth to water	upon completion		
Depth :	n Feet	Sect Thickness	ion 2. PRINCII	PALWATE	R-BEARING ST	RATA	Fetim	ated Yield
. From .	То	in Feet	Des	cription of	Water-Bearing Fo	ormation		per minute)
			Section 3	. RECORD	OF CASING			
Diameter	Pounds	Threads	Depth in		Length	Type of Shoo		Perforations
(inches)	per foot	per in.	Тор	Bottom	(feet)		Fro	om To
Depth i	n Feet	Sectio			ING AND CEME	NTING	· · · · · · · · · · · · · · · · · · ·	:
From	То	Diameter	Sacks of Mud		Cement	Metho	d of Placem	ent
			Section 5	. PLUGGIN	G RECORD			
						Depth in I	eet	Cubic Feet
ugging Metho ite Well Plugg	d				No.	Тор	Bottom	of Cement
igging approv					1 2			
		State Engir	ncer Represent	ative	3 4			
			FOR USE OF	STATE EN	GINEER ONLY			
ate Received	Typed :	5/11/78				FWL		FSL
File No				Use <b>011</b>	ī	ocation No. 17	.33.30.1	1000

			Section 6. LOG OF HOLE						
Depth i		Thickness	Color and Type of Material Encountered						
From	То	in Feet							
0	28		Caliche and gravel						
28	223		Shale and shells						
223	515		Red rock						
515	533		Anhydrite						
		V	L S Elev						
			Depth to K Trc 28 Elev of K Trc 4011						
			COY OI Name III Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Contr						
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Section 7. REMARKS AND ADDITIONAL INFORMATION

This we	11 record	is an	excerpt	from Oil	Conservation	Commission	files	at Hobb	s.	N.M
TUIB ME	II LECOLO	is an	excerpt	ILOM OIT	Conservation	COMMITSOIGH	TITES	ac 1000	,,,	. 1

Location: 17.33.30.11000

Elevation: 4039' DF

Owner: Continental Oil Co.

MCA Unit Battery 4 #133

Record of Casing: 10" - 21'
7" - 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

# STATE ENGINEER OFFICE WELL RECORD

# Section 1. GENERAL INFORMATION

a b. Tract N c. Lot No Subdiv d. X=	¼ 3	/4 ¹ / ₄			and is located	in the:		
b. Tract No Subdiv	lo		1/ -6 5-					
c. Lot No Subdiv		of Man No			Township			
Subdiv.		of map No.		of	the			
d. X=	ision recorde	of Block No			County			
the		feet, Y=		feet	, N.M. Coordinate			
Drilling Co	·					ė		
						License No		
					Type tools			
					well is			
npleted well		hallow 🗆 a	tesian.		Depth to water	upon completion		
Depth is	n Feet	Thickness	ion 2. PRIN	CIPAL WA	TER-BEARING ST	RATA	Estimat	ted Yield
From	То	in Feet	1	Description	of Water-Bearing F	ormation		er minute)
					141-1711 - 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1			
							<u></u>	
Diameter	Pounds	Threads		n 3. RECO in Feet	RD OF CASING Length		Pe	erforations
(inches)	per foot	per in.	Тор	Bottom	(64)	Type of Shoe	Fron	
Depth i	Feet	Section	n 4. RECO		DDING AND CEM	ENTING		
From	То	Diameter	of M		Cubic Feet of Cement	Method	of Placemer	nt 
						·		
		L	<u></u>				<del></del>	. <u> </u>
ging Contra	rtor			n 5. PLUG	GING RECORD		* .	
ress					No.	Depth in F	cet	Cubic Feet
ging Method Well Plugge						Тор	Bottom	of Cement
ging approve					2			
		State Engir	neer Represe	entative	3 4			
	Typed 5		FOR USE	OF STATE	ENGINEER ONL	Y		

	Section 6. LOG OF HOLE											
Depth	in Feet	Thickness	Color and Type of Material Encountered									
From	То	in Feet	30001410 1770 01 112111111 2010111111									
0	45		Caliche and sand									
45	375	-	Red bed									
375	1145		Red bed, red rock									
			L S Elev									
			Depth to KTrc									
			Flev of K Trc 40 12									
			·									
	1											
		· · · · · · · · · · · · · · · · · · ·										

Section 7. REMARKS AND ADDITIONAL INFORMATION

This we	11 record is	an excernt	from 011	Conservation	Commission	files	at Hobbs	N M

Location: 17.33.30.12000

Elevation: 4057' DF

Owner: Continental 0il 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 form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office ions, except Section 5, shall be answered as completely and accurate when this form is used as a plugging record, only Section 1(a) and Section need be completed. of the State Engineer. A possible when any well is drilled, repaired or deepene

# STATE ENGINEER OFFICE WELL RECORD

# Section 1. GENERAL INFORMATION

	Post Office A						Owne	1 S WEII NO. 2	
ell was drille	d under Permit	No			a	nd is located	in the:		
a	_ ¼	/4 1/4	¼ of Se	ection		Township	Rar	ige	N.M.P.M
b. Tract	No	of Map No	),		of the _				
	loivision, recorde								
d. X=		_ feet, Y=		fe	et, N.M.	Coordinate S	ystem		Zone ii
B) Drilling (	Contractor						_ License No		
ddress							,		
rilling Began		Com	pleted		т	ype tools		Size of h	olein
evation of la	nd surface or				at well is.		_ ft. Total depth	of well	ft
ompleted wel	ll is 🗀 s	hailow 🗆	artesian.		De	oth to water	upon completion	of well	ft
Dunth	in Feet	1	ction 2. PRIN	ICIPAL W	ATER-B	EARING STI	RATA	Estima	-t-a Viola
From	To	Thickness in Feet	•	Description	on of Wat	er-Bearing Fo	ormation		ated Yield per minute)
		,							
	1		Section	on 3. REC	ORD OF	CASING			
Diameter (inches)	Pounds per foot	Threads per in.		in Feet		Length (feet)	Type of Sho	e <del></del>	Perforations
(menes)	period	Per an	Тор	Botto	om	(1001)		Fro	m To
		1		<u> </u>					
	:								
				<u></u>					
Depth	in Feet	Secti Hole	ion 4. RECO Saci			Feet Feet		d of Placeme	
From	То	Diameter	of M		of Cement		Metho	nt	
							1		
			Section	on 5, PLU	GGING I	RECORD			
ugging Contr	actor								
	od					No.	Depth in l	Feet Bottom	Cubic Feet of Cement
ite Well Plug	ged					- 1		BOTTOIN	
ugging appro		C4-4- P				$ \begin{vmatrix} \frac{2}{3} \end{vmatrix}$			
	-	State Eng	gineer Repres	entative	O-12-1	4			
ate Received	Typed	5/11/78	FOR USE	OF STAT	E ENGI	NEER ONLY	•		
					Quad		FWL _		FSL
File No		· · · · · · · · · · · · · · · · · · ·		Use	011	L	ocation No1	7.33.30.	14000

Section	~	т	OC.	OE	HOI	E

			Section 6. LOG OF HOLE
	in Feet	Thickness	Color and Type of Material Encountered
From	То	in Feet	Cotol and Type of National Encountered
0	30		Caliche
30	85		Caliche and sand
85	810		Red bed and red rock
			L S Elev 4072 DF  Depth to K Trc 85  Elev of K Trc 3987
			Depth to KTrc85
			Elev of K Trc 3987
		<u> </u>	

# Section 7. REMARKS AND ADDITIONAL INFORMATION

This	well	record	is	an	excernt	from	011	Conservation	Commission	files	at	Hobbs.	N.M.
- 11 - 13	-CTT	record		œ17	CACCELPE	T L UM	~	CONTRET ARCTOR	COMMITGOTOIL	T TT60	а.	HODDO.	14 - 17 -

Location: 17.33.30.14000

Elevation: 4062' GL

Owner: Continental Oil Co.

MCA Unit Battery 4 #135

Record of Casing: 10" - 20'

Rotary

1980' FNL - 1980' WL

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 e appropriate district office of the State Engineer. Al of the State Engineer. All colons, except Section 5, shall be answered as completely and accurate possible when an drilled, repaired or deepened when this form is used as a plugging record, only Section 1(a) and Section need be completed. ons, except Section 5, shall be answered as completely and accurat possible when any well is

Street or	Post Office A	ddress			Owne	er's Well No	
ell was drilled	under Permit	No	1.7.4	and is located	in the:		
a	_ ¼ ;	/4	¼ of Section_	Township	Ra	nge	N.M.P.I
				of the			
				_ of the			
				•	~		
		reet, Y=		feet, N.M. Coordinate			
) Drilling C	ontractor	· · · · · · · · · · · · · · · · · · ·			License No		1
dress				-		<del></del>	
illing Began .		Comp	leted	Type tools		Size of l	holei
evation of lan	d surface or _			_ at well is	ft. Total depth	of well	f
ompleted well		thallow 🔲 ar			upon completion		
mpieted wen	15 LJ 5					II OI WEII	
Depth i	n Feet	Thickness		WATER-BEARING ST		Estim	ated Yield
From	То	in Feet	Descrip	tion of Water-Bearing F	ormation		per minute)
						<u> </u>	
			Section 3. RE	CORD OF CASING			
Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet	(6.1)	Type of Sho	oe —	Perforations om To
(menes)	Per 1001	per an:	Top Bot	tom (feet)		F1)	om To
		-					
		Section	n 4. RECORD OF	MUDDING AND CEM	ENTING		
Depth i		Hole Diameter	Sacks of Mud	Cubic Feet of Cement		od of Placem	ent
From	To	Diameter	or Mud	or Cement			
						····	
			Section 5. PI	UGGING RECORD			
agging Contra	ctor						
ldress				No.	Depth in		Cubic Feet
te Well Plugg					Тор	Bottom	of Cement
agging approv				2			
		State Engi	neer Representative	3			
			EUD HEE OF ST	ATE ENCINEED ON	v		
ate Received	Typed	5/11/78	FOR USE OF ST	ATE ENGINEER ONL			
				Quad	FWL _	,	FSL
File No			Use	011	Location No. 1	7.33.30.	31111

Section 6. 1	LOG	OF	HOLE
--------------	-----	----	------

		1	Section 6, LOG OF HOLE
	in Feet	Thickness	Color and Type of Material Encountered
From	То	in Feet	
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
			LS Elev
			Depth to KTrc
			f - 1.
	-		

#### Section 7. REMARKS AND ADDITIONAL INFORMATION

This	well	record	ís	an	excerpt	from (	110	Conservation	Commission	files	at	Hobbs,	N.M	٤.
------	------	--------	----	----	---------	--------	-----	--------------	------------	-------	----	--------	-----	----

Location: 17.33.30.31111 Owner: Continental Oil Co.

MCA Unit #197

Record of Casing: 8.5/8"

8 5/8" - 128' 7" - 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. Although 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 need be completed.

l was drilled	under Permit	No			and is locate	d in the:		
a	_ ¼ ½	4 ¼	¼ of Se	ection	Township_	Ran	ge	N.M.P.I
b. Tract	No	of Map No.		of t	he			
		of Block No						
						System		Zone i
the	2.5							Gran
Drilling C	ontractor					License No		
dress			·					
lling Began		Comp	leted		Type tools _		Size of I	nolei
vation of lar	nd surface or _			at w	rell is	ft. Total depth	of well	f
mpleted wel	lis 🗆 s	hallow 🔲 a	rtesian.		Depth to water	er upon completion	of well	f
Direkt	- Foot	T	ion 2. PRIN	ICIPAL WAT	ER-BEARING S	TRATA	Eatin	ated Yield
Depth From	То	Thickness in Feet		Description o	f Water-Bearing	Formation		per minute)
							· · · · · · · · · · · · · · · · · · ·	
		<u></u>		2 05000	D OF CLOPIC			
Diameter	Pounds	Threads		in Feet	D OF CASING Length	Type of Sho		Perforations
(inches)	per foot	per in.	Тор	Bottom	(feet)	Type of she	. Fro	om To
			<del></del>				_	
			:					-
		Section	on 4. RECO	RD OF MUD	DING AND CE	MENTING		<u>, , , , , , , , , , , , , , , , , , , </u>
Depth From	in Feet To	Hole Diameter	Sac of M		Cubic Feet of Cement	Metho	d of Placem	ent
			Saction	on 5 PLUGG	ING RECORD			
gging Contra	ictor			J. 12000				
					No.	Depth in Top	Feet Bottom	Cubic Feet of Cement
te Well Plugg					1 2			
gging appro-		State Engi	ncer Repres	entative	3			
					4	1		

Section 6. LOG	of	HOI	F

			Section 6. LOG OF HOLE
	in Feet	Thickness	Color and Type of Material Encountered
From	То	in Feet	Cotof and 17pe of Material Encountered
0	98		Caliche and sand
98	145		Sand and gravel
145	1171		Red rock and red bed
		İ	
	1/		
			L S Elev 4060
			L S Elev
*			Elev of K Trc 39/3
	:		
· · · · ·			
	:		
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		/	

Section 7. REMARKS AND ADDITIONAL INFORMATION

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

Location: 17.33.30.42000

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.

Driller

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

File No. 1 -4363

## 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>					& Waltermier x 1206		
								Texas.
			— City		. Jan. D	v. L = 1/36	State	nd is located in the
								Rge. 33 R
			(B) Dri	lling Contr	actor C.	O. Aldredge	Lic	ense No.W D 79
				nd Number. <b>Wington</b>	PO Bo	× 379	Ctoto	New Mexico.
			" "					1959
		i						19 60
•	lat of 640	•	_	_				
levation	n at top o	of casing i	in feet above	sea level		Total dep	oth of well	240 7/0 Pt
ate wh	ether we	ll is shall	low or artesia	U SUSTION	<u> </u>	Depth to wat	er upon comp	letion I60 Ft
ction 2	2		PR	INCIPAL W	ATER-BEAR	ING STRATA		
No.	Depth i	in Feet	Thickness in		De	scription of Water	-Bearing Forma	tion
	From	То	Feet		·			
1	170	180	10	Brow	m water	sand		
2	183	200	17	Brow	m water	sand & grave	1	
3	•				· · · · · · · · · · · · · · · · · · ·			
4								
5			<u> </u>	1				
<del></del>		<u> </u>	<u>'</u>			FINIC .		
ction 3	3				D OF CA	SING	<del> </del>	
Dia in.	Pounds ft.	Thre	uus	epth   Bottom	Feet	Type Shoe	From	forations To
		- TX	0	<del>-  </del>		·		
65/8	Welde	d T	222	222	222	None	176	222
		4						
-								
	<u> </u>							
ction 4	<del></del>	<del></del>				ID CEMENTING		
Depth From	in Feet	Diam Hole i	-		cks of nent		Methods Used	
		+ :				well was be	quegell pore	d in bole while
	<del>- </del>	$\dashv$				HOLL HES OF	erif ar trrac	
	1							
			1					
							*	
							*	
ction 5	1			PLUG	SING REC	ORD		
		g Contrac	etor				License l	No
me of reet an	Plugging ad Numb	er		·	City		State	
me of reet an	Plugging ad Numb	er		·	City	Туј	State oe of roughage	· · · · · · · · · · · · · · · · · · ·
me of reet an	Plugging nd Numb Clay used	er		Roughage 1	City	Туј	State oe of roughage	· · · · · · · · · · · · · · · · · · ·
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LOG OF WELL

Depth	in Feet	Thickness in Feet	Color	Type of Material Encountered
0	2	2	Brown	soil
2	30	28	White	Calchie rock
30	70	40	Brown	sand
70	I)4O	70	Red	sand
Il ₁ 0	150	IO	White	Caliche
150	152	2	Red	Sanale Shale
I52	170	т8	Red ⁷	Sand
I70	180	IO	Brown	water sand
I80	189	3	Red	shale
I83	200	I7	Brown	water sand &gravel
200	222	22	Red	Shale & sand rock
222	226	4	Red	Red bed
	1			
	1			
				1120/
				L S Elev 4/22
				L S Elev 4/122/ Depth to K Trc 222/ Elev of K Trc 3900/2
	<del> </del>			110.27001
<u>-</u>	<del> </del>	<del> </del>		
	<del>                                     </del>			
				17.33.35.32/42
				Loc. No.
		1		Hydro, SurveyField Check ×
	ļ	ļ		- Onoun
	ļ		<u> </u>	
				SOURCE OF ALTITUDE GIVEN
				Interpolated from Topo. Shoe:
				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

6.0. aldredge

1-4363

17. 33.35.321

#### STATE ENGINEER OFFICE

## FIELD 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.

		(A) Oum	er of well	031.7 0	IL CORPORA	Trox	
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		<u> </u>					
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		1					
		1 ' '	_				
t	•	Drilling v	was comm	enced	April.2	4	19
		Drilling v	vas comple	eted		APPLI 5	19. <b>53</b>
	-						006
at top of	casing in	feet above se	a level		Total dej	oth of well	###
ether well	is shallo	w or artesian	enal	1000	Depth to wa	ter upon comp	letion 130
		PRIN	ICIPAL WA	TER-BEAR	ING STRATA		
Depth in	Feet	Thickness in		Des	scription of Water	-Bearing Format	ion
From	To	Feet		20.	cription of water	- Doming Format	101
150	290	60	ma La	r sand			
<u> </u>			<u> </u>		****		
			RECOR	D OF CAS	ING		
Pounds	Thread	s De	pth	Foot	Type Shee	Per	forations
ft.	in	Тор	Bottom	reet	Type Silve	From	То
30	10	. 0	233	233	open	150	233
	<u> </u>					<u> </u>	
		RECOR	D OF MUI	DING AN	D CEMENTING		
in Feet	Diamete		No. Sa		D OLIVICATION OF		
m reet			110, 54	CK2 OI		Methods Used	
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То			Cem	1		Methods Used	
	Hole in	in. Clay	PLUGG	SING RECO	ORD		
	Hole in	in. Clay	PLUGG	SING RECO	ORD		To
Plugging	Hole in	in. Clay	PLUGG	SING RECO	DRD	License N	
Plugging d Number	Hole in	in. Clay	PLUGG	City	ORD	License N	
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Plugging d Number Clay used	Contracto	orTons of R	PLUGG	City	DRD Typ Date Plu Cement Plug	License N State pe of roughage gged gs were placed	19as follows:
Plugging d Number lay used method us approved	Contractorsed.	or Tons of R	PLUGG	Citysed	DRD Typ Date Plu Cement Plug Depth of Pl	License N State pe of roughage gged gs were placed	19
Plugging d Number lay used method us approved	Contractorsed.	or Tons of R	PLUGG	City	DRD Typ Date Plu Cement Plug Depth of Pl	License N State pe of roughage gged gs were placed	19as follows:
Plugging d Number clay used method us approved FOR USE	Contractors ded	Tons of R	PLUGG Soughage u	City	DRD Typ Date Plu Cement Plug Depth of Pl	License N State pe of roughage gged gs were placed	19as follows:
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Plugging d Number clay used method us approved	Contractors by:	Tons of R	PLUGG	City	DRD Typ Date Plu Cement Plug Depth of Pl	License N State pe of roughage gged gs were placed	
	Depth in From 150	Depth in Feet From To  150 236  Pounds ft. Thread in	Well was    Frame   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   Well was   We	Well was drilled ur    St   14   15   14     (B) Drilling Control   Street and Number. City     Drilling was commodiated of 640 acres     at top of casing in feet above sea level     ether well is shallow or artesian     PRINCIPAL WA   Depth in Feet   Thickness in Feet     From   To   Feet     From   To   Feet     Foot   Thickness in Feet     From   To   Feet     Pounds   Threads   Depth     Threads   Threads   Depth     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threads     Threads   Threa	Well was drilled under Perm    Street and Number	Well was drilled under Permit No.    Well was drilled under Permit No.   Well was drilled under Permit No.   Well was drilled under Permit No.   Well was drilled under Permit No.   Well was drilled under Permit No.   Well was drilled under Permit No.   Well was drilled under Permit No.   Well was drilled under Permit No.   Well was drilled under Permit No.   Well was drilled under Permit No.   Well was drilled under Permit No.   Well was drilled under Permit No.   Well was drilled under Permit No.   Well was drilled under Permit No.   Well was drilled under Permit No.   Well was drilled under Permit No.   Well was drilled under Permit No.   Well was drilled under Permit No.   Well was drilled under Permit No.   Well was drilled under Permit No.   Well was drilled under Permit No.   Well was drilled under Permit No.   Well was drilled under decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal decimal de	Drilling was completed    State of 640 acres

QUED- XX

### Section 6

### **LOG OF WELL**

Depth i	n Feet To	Thickness in Feet	Color	Type of Material Encountered
0	1		-	EOL)
1	18	17		ealions
28	150	132		eand
150	230	80		weter sone
230	233	3		sandy oley
·				
-				
		:		
		<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

## STATE ENGINEER OFFICE

	群 DE	LD ENG	Rinc	WEL	L RECO	ORD		
nearest	district of	This fort	n should be ( State Engir	eer. All se	ctions, exc	ept Section 5. s	shall be answere	submitted to the d as completely and
accurate	ely as pos only Section	sible when	n any well is I Section 5 ne	s drilled, re	epaired or	deepened. Wh	en this form is	used as a plugging
Section	. •	on man	7.		_			
	T							
1	1		Street a	nd Number	P.O.	30% 2167		
			City		1022		State _	
		3.00						nd is located in the
		d 25						Rge.
	280	1 FS4		,			7 Lic	ense No.
		NEEL						Per Herico
	291							19
		V	Drilling	was commi	eted		sarch Is	19 6 3
	Plat of 640				61			
Elevatio	on at top o	of casing in	n feet above	sea level		Total de	epth of well	233
State w	hether we	ll is shallo	ow or artesia	n Shall	00	Depth to w	ater upon comp	letion 100
Section	2		PR	INCIPAL W	ATER-BEAR	ING STRATA		
No.	Depth i	n Feet	Thickness in		De	scription of Wate	er-Bearing Format	ion
NO.	From	To	Feet		. 17			
1	150	230	80	#0 \$4	r eand	<u> </u>	jag i i i i i i i i i i i i i i i i i i i	· · · · · · · · · · · · · · · · · · ·
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Section	3	·			RD OF CA	SING	1	
Dia in.	Pounds ft.	Threa	ds Top	Depth	Feet	Type Shoe	From	forations
7	20	10		230	230	open	150	230
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_								
Section						ID CEMENTING		· · · · · · · · · · · · · · · · · · ·
Dept	h in Feet	Diame Hole in			acks of nent		Methods Used	
TIOIII	10						· · · · · · · · · · · · · · · · · · ·	
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Section			1		SING REC	e		
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								19
Plugging	g approved	l by:				Cement Plu	gs were placed	as follows:
			Basin S	pervisor	No	Pepth of F	To No.	of Sacks Used
·	70	(IM.M.)	E ENGINEER		7  -			
	FOR US	E-OF STAT	ISIO	ONLY				
Date	Received	SINEER OF	STATE ENE	V		<del></del>		
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		2 4			)			
File No		5055		Use	8 w	1 Locatio	on No. /X33	35.93 332

OWD-OK

## Section 6

## LOG OF WELL

Depth in Feet From To		Thickness	Color	Type of Material Encountered				
From	То	in Feet		App w massia missiand tu				
O	1 *	1	,	sol2				
1	18	27		esisahe				
10	150	133		send				
160	230	80		seter send				
30	283	3		eandy olay				
`~			A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA					
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				Hydro. SurveyField Check				
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				SOURCE OF ALTITUDE GIVEN				
				Interpolated from Topo. Sheet				
				Determined by Inst. Leveling				
			<del></del>	Other				
		-		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

SECTION ____

TOWNSHIP 185

RANGE 32E

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ą.		 •	

Street or City and	Post Office A	ddress P.O.	Box l Mexic	90 o 8824	0					
ell was drilled	l under Permit	No. CP-	-566	e	_ and is located	l in the:				
a	_ ¼ <u>SE</u> ;	4 <u>SE 4 1</u>	₩ ¼ of Se	ection 4	Township _	185	Range	32E	N.M.P.N	
				of the						
c. Lot No Subdiv	o vision, recorde	of Block No.	13 Lea	of the	Chap ounty.	parel				
d. X=			<del></del>	feet, N.		System				
		Abbott 3	Bros.							
				Mexico						
				6/3/7					8 <del>1</del>	
evation of lar	nd surface or			at wel	l is	ft. Total de	pth of well	133	ſ	
ompleted well	<b>75</b>	hallow 🗀 a			Depth to water					
,		Sect	ion 2. PRIN	CIPAL WATER	R-BEARING ST	TRATA		·. · ·		
Depth i	in Feet To	Thickness in Feet		Description of \	Water-Bearing I	Formation		Estimated ` llons per n		
65	133	68		Sand						
			Sectio	n 3. RECORD	OF CASING					
Diameter (inches)	Pounds per foot	Threads per in.	Depth Top	in Feet Bottom	Length (feet)	Type of	Shoe	Perforations From To		
6 5/8	21	Welded	0	133	133	133 None		65	133	
		Section	on 4. RECO	RD OF MUDDI	NG AND CEM	ENTING				
Depth From	in Feet To	Hole Diameter	Sacl of M		bic Feet Cement	Me	thod of Pl	acement		
						Cement	at to	р		
						· · · · · · · · · · · · · · · · · · ·				
			<u> </u>							
				n 5. PLUGGIN	G RECORD					
ddress					No.	· · · · · · · · · · · · · · · · · · ·	in Feet		bia Feet	
ate Well Plugg	ed					Тор	Botton	n of	Cement	
ugging approv	red by:	St. F								
		State Engi	ncer Represe		4					
			FOR USE	OF STATE EN	GINEER ONL	Y				
ate Received	June 1:	3, 1977								

Section 6. LOG OF HOLE

			Section 6. LOG OF HOLE
	in Feet	Thickness	Color and Type of Material Encountered
From	То	in Feet	
0	- 2	2	Surface soil
2	26	24	Caliche
26	65	59	Sand-tight
65	91	26	Sand-water
91	107	16	Sand-tight
107	129	22	Sand-water
129	133	4	Sandy clay
	•.		
-1			Cit.
			S7 77
			STATE STATE OF FIGURE 2
	5 0	Section	7. REMARKS AND ADDITIONAL INFORMATION
			ACER AN
			M. FF.
			<b>2</b>

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 abbott

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



Street or	Post Office A	irgil Lir ddress <b>Z Fa</b> y	e L. K	<u>lein, P</u>	.O. Bo	ox 150	)3 Ow	ner's Well	No	
-		Hobbs					****			
		NoCP-								
a	_ ¼ !	f SE 4 S	SE ¼ of S	ection7	To	wnship	18S F	Range	32E	N.M.P.M
b. Tract	No	of Map No.		of	the					
		of Block No d inLe								÷ ,
										25
the		feet, Y=								Zone in
) Drilling C	Contractor	Abbott Br	os. Dr	illing			License No	WD-	-46	۲.
ddress	P.O. Bo	x 637, Ho	bbs, N	ew Mexi	co l	88240			- (5)	
rilling Began .	7/17/9	2 Com	pleted 8	/7/92	Турс	tools_C	Cable	Siz	e of hele_	10 in
evation of lar	nd surface or .			at	well is		_ ft. Total dep	th of well	524	ft
		shallow 🗀 a								
Milpieted wel	113									
Depth	in Feet	Thickness		NCIPAL WA					Estimated	
From	То	in Feet		Description .	(g:	illons per i	ninute)			
460	517	57	Sa	nđ				_		
	I,	.1	Faati	on 3. RECO	DD OF C	ASING				
Diameter	Pounds	Threads		in Feet	<del></del>	ength	Type of S	thos	Perfo	rations
(inches)	per foot	per in.	Тор	Bottom	(	feet)	Type of S		From	То
9 5/8	33	Welded	0	125	1	25			None	
5 ½	15	Welded	0	527	5	27			459	524
				<u> </u>						
		Secti	on 4. RECC	RD OF MU	DDING A	ND CEM	ENTING			
Depth From	in Feet To	Hole Diameter	Sac of N		Cubic Fo		Me	thod of Pl	acement	
110/11	<u> </u>									·
		1	<u> </u>							
			Secti	on 5. PLUG	GING RE	CORD				
	actor									
•••	odb					No.	Top	in Feet Botto		bic Feet Cement
ate Well Plug ugging appro	_					2			-	,
		State Eng	ineer Repre	sentative		3				
					<del></del>			I		
,										
ate Received	A	et 13 100		OF STATE	ENGINE	ER ONL	Y			
ate Received	Augu	st 12, 199			E ENGINE		Y FWL	· —	FSL	

			Section 6. LOG OF HOLE
	in Feet	Thickness	Color and Type of Material Encountered
From	То	in Feet	
0	6	66	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
			51

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.

Mussell Abbatt
Driller J.B.

INSTAUCTIONS: This folin 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 4 de be completed.



A) Owner of		11 Linam E			.ne	Own	er's Well No.			
City and	State	Idress Carl	s, NM 88	240						
Vell was drilled	l under Permit	No	Cp672		_ and is located	d in the:		•		
							225			
a	_ ¼ ¼	3E 1/4 _ 5.	L ¼ of Se	ction	Township_	18S Ra	nge	N,M,P,I		
b. Tract	No	of Map No.		of the						
c. Lot No	0	of Block No		of the	:					
Subdiv	vision, recorded	d in	Lea		County.					
		_ feet, Y=			.M. Coordinate	System		Zone i		
B) Drilling C	Contractor	:	Larry's	Drilling		License No	WD882	····		
ddress			2601 W.B	ender, Hob	bs,NM 8824	10				
rilling Began .	1-228	5 Comp	leted <b>1</b> _	29-85	_ Type tools _	tricone	Size of	hole <u>83/4</u> i		
levation of lar	nd surface or			at we	II is	ft. Total depth	of well 54	0 f		
						-				
ompleted well	lis 🛣 sl	nallow 🗆 ar	tesian.		Depth to wate	r upon completion	of well	f		
		Sect	ion 2. PRIN	CIPAL WATE	R-BEARING S	TRATA				
Depth		Thickness		Description of	Water-Bearing	Formation		nated Yield		
From	То	in Feet		(gallons per minute)						
498	510	12	,	clay & gra	vel, small	amt. of sam	mt. of sand 12			
							<del> </del>			
							<u>i</u>			
		1 1		n 3. RECORD	OF CASING	1				
Diameter (inches)	Pounds per foot	Threads per in.		in Feet Bottom	Length (feet)	Type of She	oe <del> </del>	Perforations To		
65/8	160PVC	pv. z	Top   -1		541	<del> </del>	FI	om To		
							4	80 540		
_										
			4 8500		L CEL	45.25.20				
Depth	in Feet	Hole	Sack		ING AND CEM		4 -C D)			
From	То	Diameter	of M	ud of	Cement		od of Placem			
****					-					
						_				
				•						
			Sectio	n 5. PLUGGIN	IG RECORD					
					No.	Depth in		Cubic Feet		
iugging Metno Pate Well Plugg		<del></del>		<del>~~~~</del>		Top	Bottom	of Cement		
lugging approv					2	† ·				
		Ctata F			3					
		State Engir	neer Represe	ntative	4					
		· · · · · · · · · · · · · · · · · · ·	FOR USE	OF STATE EN	GINEER ONL	 .Y				
Date Received	February	8, 1985								
				Quad		FWL _		FSL		
File No	CP-672			Use STO	CK	Location No	18.32.7.	44144		
	· · · · · · · · · · · · · · · · · · ·									

Section 6. LOG OF HOLE

Depth in	Fect	Thickness	Section 6. LOG OF HOLE
From	То	in Feet	Color and Type of Material Encountered
0	6	6	blowned
6	12	6	gray & white same
12	16	4	eoft calicha
16	- 64	48	brown slay
64	150	86	red elay
150	120	70	brova elsy
220	498	278	red clay with esticks of brewn & gray clay
498	510	12	smil gravel, brown clay
510	540	30	brann & red elay
	··		
	_		
			<u> </u>

Section 7. REMARKS AND ADDITIONAL INFORMATION

STATE CHOST CENT

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 formuld be executed in triplicate, preferably typewritten, and submit appropriate district office of the State Engineer. An allowing the state Engineer is a completely and accumulate the 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.

(A) Owner of Street or	well Di	lly W	llian	i. GENERAL II		N Own	er's Well No. 2	TH #1		
							- <del></del>			
Well was drilled								_		
a. 3E	: 4 <u>56</u> 4	NE 4 ME	¼ of S	ection /C	Township	<i>185</i> Ra	nge	EN.M.P.M		
b. Tract	No	of Map No.		of the			·· ·· · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
				of the						
		7						Grant.		
	Contractor	Larry -	Felh			License No				
Address	110000	1 D. K.	<u> </u>			24		TV		
Drilling Began	9/3/9/	Comp	leted _ <i>9</i> /_	3/9/	_ Type tools 4	Rotary	Size of h	iole <u>3/4</u> in.		
Elevation of las	nd surface or _			at wel	l is	ft. Total depti	of well	00ft.		
Completed wel	lis □ sl	nailow 🗆 aı	rtesian		Denth to wat	er upon completion	n of well	Iry ft.		
Completes wer							01	-0		
Depth	in Feet	Thickness		ICIPAL WATEI			Estim	ated Yield		
From	То	in Feet		Description of	Water-Bearing	Formation		per minute)		
	•									
							ļ			
		l								
		<del>, ,</del>	Section	on 3. RECORD	OF CASING					
Diameter (inches)	Pounds per foot	Threads per in.		in Feet Bottom	Length (feet)	Type of Sh	oe	Perforations To		
(2:0::00)	F	F	Тор	Bottom	(4444)	<del>                                     </del>	Fre	10		
							-			
							<del></del>			
		<u> </u>			<u> </u>					
		Section	n 4. RECO	RD OF MUDD	ING AND CE	MENTING				
Depth From	in Feet To	Hole Diameter	Sac of M		bic Feet Cement	Meth	Method of Placement			
						<del></del>				
		į								
			L	<u>-</u>				<del></del>		
			Section	on 5, PLUGGIN	G RECORD					
Plugging Contr	actor									
Address						Depth in	Feet	Cubic Feet		
					No.	Тор	Bottom	of Cement		
Date Well Plugs Plugging appro					$ \frac{1}{2}$	-				
- rasping appro-			-		3			<del></del>		
		State Engi	neer Repres	entative	4					
<del></del>			FOR HEE	OF STATE EN	CINEED ON	ΙΥ				
Date Received			I OK USE							
	_			Quad		FWL .		FSL		
File No.	Jone_			Use EXP	2	Location No.28	32.16. 2	23433		
rite NO.	100			∪se <u></u> /		Location No.2.2	110,14,0			

			Section 6, LOG OF HOLE
Depth From	in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	20	20	Sand
20	36	16	Sand - some gravel
36	42	4	sand, some grovel, sed clay
42	70	28	sand, some growl, sed clay Ned clay and sand
70	79	9	red clay, some grand
79	85	6	sand
85	94	9	sand and grand
94	100	6	red clay
***************************************			
····			
		· · · · · · · · · · · · · · · · · · ·	
		-	
<del></del>			
	1	I	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.

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



C44	Post Office A	dress 692 1	lenn's	Wate New M	r We	11	Serv:	.ce. Inc.	ner's Well No		
-		No. CP-									
								8-S.	Range 32-	E.	N.M.P.M
b. Tract	No	of Map No.			of the						
c, Lot N	10	of Block No			of the.						<u></u>
	,	d in				•					
								System			
B) Drilling	Contractor G1	enn's Wat	ter Wel	l Ser	vice	<u> </u>		License No	WD 42	1	
ddress <u>B</u> C	x 692 T	atum, Nev	w Mexic	o 882	67						
rilling Began	5/9/85	Comp	leted5	/9/85		. Туре	tools _	Rotary	Size of	hole	7_7/8 _{in}
levation of la	nd surface or _				at well	is		ft. Total dep	th of well_7	00	ft.
ompleted we	ll is 🔀 s	hallow 🗀 a	rtesian.		1	Depth	to water	upon completi	on of well		ft.
Death	in Foot		tion 2. PRIN	CIPALW	ATER	-BEA	RING S	TRATA			• • • •
From	in Feet To	Thickness in Feet	1	Description	on of W	Vater-	Bearing I	ormation		mated Y	
			D	ry Ho	le						
	L			<del></del>				<del></del>			
Diameter	Pounds	Threads		n 3. REC	ORD (		ASING	T	<del></del>	Perfor	ntions
(inches)	per foot	per in.	Тор			feet)	Type of S	hoe F	rom	То	
:		-		ļ							
	<u> </u>			<u> </u>							
	l			<u> </u>							**************************************
Depth	in Feet	Section Hole	on 4. RECO			NG A			had of Place		·
From	То	Diameter	of M			Ceme	nt	Met	hod of Placer	nent	
	well wa	s pluged	with s	and a	nd m	ud					
			<u> </u>								
	<u> </u>		l		<u> </u>	-					
higging Contr				n 5. PLU	GGING	G REC	CORD				
ddress						_	No.	Depth			bic Feet
ate Well Plug ugging appro	ged	***************************************					1	Тор	Bottom	01	Cement
аввив аррго		State Engi	neer Represe	entative			3			_	
		State Ligh	-		re ev	CINT	ED ONL	<u></u>		<u> </u>	ابرائيس و سرواند
ate Received	May 15,	1985	FOR USE								
F11. 11	CP-677				Quad_ OWD			FWL			
File No				∪se				Location No	_ <b>18.32.2</b> 3.32.24		

			Section 6. LOG OF HOLE
Depth From	in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	12	12	sand-loose
12	24	12	clay
24	47	23	caleche
<del>47</del>	58	11	sand
58	84	26	sandy clay
84	102	18	red clay sticky
102	116	14	sand and gravel
116	142	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
440	500	60	brown shale-grainey
500	530	30	sand rock -fine
530	545	15	brown shale
<del>545</del>	605	60	sand rock-medium
605	616	11	hrown shale
616	675	59	sand rock
<del>675</del>	700	25	red shale
	<del> </del>	<del>                                     </del>	

Section 7. REMARKS AND ADDITIONAL INFORMATION

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: 15 should be executed in triplicate, preferably typewritten, and su possible when any well is drilled, repaired or deep hed. When this form is used as a plugging record, only Section 1(a) and 2 non 5 need be completed.





(A) Owner o	f well		Corpora				Ov	vner's Well No	. ————	
Street or City and	Post Office A	ddress 5357 Tucso	n, AZ 8	35712						
Well was drille	d under Permit	No0-1	3-002		and	is locate	d in the:			
	a. NE 1/4 NW 1/4 NW 1/4 NW 1/4 of Section 32 Township 18 S Range 32 E N.M.P.M.									
						_			N.M.P.M.	
		_								
		d in								
the					, N.M. C	oordinate	System		Zone in Grant.	
		Boyles Br								
Address		1624 Pion	eer Road	, Salt L	ake C	ity, U	tah 84104			
Drilling Began	May 31, 1	977 Compl	leted	22, 197	77 Typ	e tools_		Size of	holein.	
Elevation of la	nd surface or _			at	well is		ft. Total dep	oth of well	2060 ft.	
Completed wel		hallow 🗆 ar							ft.	
		Secti	ion 2. PRIN	CIPAL WAT	TER-BEA	ARING S	TRATA			
Depth From	in Feet To	Thickness in Feet	1	Description	of Water	-Bearing	Formation		mated Yield as per minute)	
274	10	TRC (ganons per mine						o por maioto,		
575		-	TR							
								<del>                                     </del>		
									-	
<u> </u>	L		- Gardin	2 DECO	D OF 0	4.61510				
Diameter	Pounds	Threads		n 3. RECOF in Feet		ength	Tune of 6	'han	Perforations	
(inches)	per foot	per in.	Тор	Bottom	7	(feet)	Type of S	From To		
7			0	20						
4½	9½		0	1195						
		<u> </u>		<u> </u>						
Denth	in Feet	Section Hole	n 4. RECOI	RD OF MUL	ODING A		MENTING			
From	То	Diameter	of Mu		of Cem		Me	thod of Placen	nent	
1195		5 7/8			10		Displace	ment		
			Section	n 5. PLUGG	ING RE	CORD				
Plugging Contra	1CtO1	oyles Bros. 624 Pioneer		t Lake (	City	! <del>r</del>				
Plugging Metho	dDispla	acement	, 50	TE EURE		No.	Top Depth	in Feet Bottom	Cubic Feet of Cement	
Date Well Plugg Plugging approv	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	22, 1977	19/	<del></del>		I	0	2040	165	
Trugging approv	Ja	State Engin	MA	Intativa		3				
		State Liight	0			4				
Date Received	July 20,	1981	FOR USE	OF STATE						
				•					FSL	
File No	0-13-002			Use	EXP		Location No.	18.32.32.1	11244	

Section 6, LOG OF HOLE

			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 Encountered
	* 24		
	<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.

Driller

INSTRUCTIONS: This for hould be executed in triplicate, preferably typewritten, and submitted the appropriate district office of the State Engineer. A state Engineer. A state Engineer is second to second the State Engineer is second to second the state Engineer is second to second the second to second the second to second the second to second the second to second the second to second the second to second the second to second the second to second the second to second the second to second the second to second the second to second the second to second the second to second the second to second the second to second the second to second the second to second the second to second the second to second the second to second the second to second the second to second the second to second the second to second the second to second the second to second the second to second the second to second the second to second the second the second to second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second th

SECTION _____

TOWNSHIP 185

RANGE 33E



(A) Owner of	(A) Owner of well Oxy USA Inc. Owner's Well No Street or Post Office Address PO Box 56250									
	State Midla									
Well was drilled	l under Permit	No. CP-75	8 Explo	ratory	and i	is located	in the:			
a	_ ¼ ¼	¼_ <u></u>	W_ ¼ of Se	ction4	To	wnship_	<u>18S</u> Rar	ige <u>33</u>	E	_N.M.P.M.
b. Tract	No	of Map No.	·	of th	ne					
	o vision, recorded			of th	ne County					
		_ feet, Y=		feet, N	N.M. Co	ordinate	System			
(B) Drilling C	Contractor D	ubose Dr	illing	Inc.			License No	WD-110	7	
Address 5407	N. Gold	ler, Ode	ssa, Te	xas 7976	64					
Drilling Began 5-8-91 Completed 5-10-91 Type tools rerun Size of hole 12 3/								3/4 _{in.}		
Elevation of lar	nd surface or _			at w	ell is XX	Ø	ft. Total depth	of well_2	50	ft.
Completed well	lis 🗆 st	hallow 🗀 a	irtesian.		Depth	to water	upon completion	of well _a	bsent	ft.
Depth	in Feet	Sec Thickness		CIPAL WATE				Esti	mated Yi	eld
From	То	1	Description of	Water-I	Bearing F	ormation		s per mi		
			AB	SENT						
Diameter	Pounds	Thomas		n 3. RECORD					Darf	
(inches)	per foot	Threads per in.	Тор	in Feet Length Bottom (feet)			Type of Sho	e F	Perforat rom	To
					ļ					
D	Face		T	RD OF MUDI			ENTING			
Dep th From	To	Hole Diameter	Sack of Mu		Cubic Fe of Ceme					
			Section	n S. PLUGGI	NG REC	CORD				
Plugging Contra	ctorDı	ıbose Dri								
Address Plugging Method	Back fi	ill with	uttings	)		No.	Depth in Top	Feet Bottom		c Feet ement
Date Well Plugg Plugging approv	ed_5 <u>-10-91</u> ed_bv:				[	1 2				
	Ken	Fraquez State Engi	ineer Represe	entative		3 4				
				OF STATE E	NGINE		v		<u> </u>	
Date Received	May 16,	1991	I OR USE				FWL _		Ec.	
File No. (	P-758-Exp	loratorv			_					
rie No.				Use			Location No	10.33.4.	.24233	

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
			Surface soil
<del></del> -	5.	5	SHIRLE SUIL
5	32	27	caliche
	50	18	purple / gecy clay
_50	65	15	clay and shale conclomerate purple and g
- 65	90	25	prown clay wint cgrey stringers
_90	120	30	red bed
120	190	70	Brown clay
190	195	5	color change to light brown clay
195	250 288	55	brown clay
			no water, back fill hele with cuttings
	<del> </del>		
	-		
	<del>                                     </del>		
		-	
	-		
	-		
			8.4

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

FIELD ENGR. LOG

			Section 1.				_	
(A) Owner of	well B. Post Office Add	J. Wool:	1e <b>y</b> 776	dba C	aprock	Sand & Grave	well No	
Street or City and	Post Office Add StateEur	nice, New	w Mexico	88231				
Well was drilled	under Permit 1	CP-540	5		and is lo	cated in the		
1							33.E	
a. NE	14 NE 14	_SE ¼	¼ of Sec	tion	7 Towns	nip <u>18-S</u> Rar	ige	N.M.
c. Lot No	0	of Block No	Lea	of t	he			
					N.M. Coord	nate System		Zon
(B) Drilling C	ontractor	W. L. V	an Noy			License No	ND-208	
Address	Box 74	Oil Cen	ter, Ne	w Mexic	o 88266			
Drilling Began .	June 1.	1975 Comp	leted Ju	ne 3, 1	.97 <b>5</b> ype to	ols Spudder	Size of hol	e10
						ft. Total depth		
elevation of lat								, •
Completed well	lis 🗆 sh	iallow 🗆 a	rtesian.		Depth to	water upon completion	of well	
		Sec	tion 2. PRING	CIPAL WAT	ER-BEARIN	IG STRATA		
Depth From	in Feet To	Thickness in Feet						ed Yield er minute)
70	85	15	fi	ne wate	er sand			
70				iic wabo	waber same.			
			Section	n 3. RECOF	D OF CASI	NG		
Diameter	Pounds	Threads		in Feet	Leng		e Perforation	
(inches)	per foot	per in.	Тор	Bottom			From	85
6 5/8"	welde	<u> </u>	0	90	90	none	70	- 89
L	I	S+:	and RECO	D OF MIII	DING AND	CEMENTING	<u> </u>	
Depth	in Feet	Hole	Sacl		Cubic Feet	CEMENTING	od of Placemer	
From	То	Diameter	of M	ud	of Cement	Meth	od of Placemer	
		·						
		1						
			Section	n 5. PLUGO	GING RECO	RD		
	actor			n 5. PLUGO	GING RECO		Face	
Address	actor			n 5. PLUGO		RD  Depth ir	Feet Bottom	
Address Plugging Metho Date Well Plug	od			n 5. PLUGO		No. Depth in Top		
Address Plugging Metho	od			n 5. PLUGO		No. Depth in Top 1		
Address Plugging Metho Date Well Plug	od					No. Depth in Top		
Address Plugging Metho Date Well Plug	od		ineer Repres	entative		No. Depth in Top 1 2 3 4		
Address Plugging Metho Date Well Plug	od ged ved by: 		ineer Repres	entative OF STATE	ENGINEER	No. Depth in Top 1 2 3 4 4	Bottom	
Address	odod	State Eng	for USE	entative OF STATE	ENGINEER	No.	Bottom	Cubic Fee of Cemer

_		<u> </u>	<del></del>	Section 6. LOG OF HOLE
-	Depth From	in Feet To	Thickness in Feet	Color and Type of Material Encountered
-	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.
_	<del></del>			2970
				L S Elev
_				Flev of KTrc 3893
_				to No 18.33. 9. 422 4/
				Loc. No. 18.33. 9. 422 41  Hydro. SurveyField Check_FB
				SOURCE OF ALTITUDE GIVEN
_				Interpolated from Topo. Sheet X  Determined by Inst. Leveling
_				Determined by Inst. Leveling
_				
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_				
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Section 7. REMARKS AND ADDITIONAL INFORMATION

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2	53	<b>√</b> .
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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 hole.

W. L. Min Driller

INETRUCTIONS: This for would be executed in triplicate, preferably typewritten, and submitted the appropriate district office of the State Engineer. An 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.

ell was drille	d under Permit	No. CP-	702		_ and is located	in the:		
						8-S. Range	22 T	
					-	•		
	lo ivision, recor <b>d</b> e							
					I.M. Coordinate	System		
) Drilling	Contractor <u>G</u>	lenn's W	ater We	ll Servi	ce. Inc.	License NoW		
						Rotary		9 7/8
						ft. Total depth of w		
ompleted we		shallow 🗆		at we				
inpicted we	11 is == 5			O(D.). W. #E	•	upon completion of w	/eii	
Depth	in Feet	Thickness	5		R-BEARING ST		Estimated	Yield
From_	То	in Feet		Description of	Water-Bearing I	Cormation	(gallons per	minute)
52	52 82 30			gravel			40	
			Sectio	n 3. RECORD	OF CASING			
Diameter (inches)	Pounds per foot	Threads per in.	Depth Top	in Feet Bottom	Length (feet)	Type of Shoe	e of Shoe Perfora	
6 5/8	.15 <b>6</b>			20110711			50	90
							1	,
					<del></del>		<del> </del>	
		<u></u>						<u> </u>
Depth	in Feet	Hole	Sack		ubic Feet		Placement	
From	То	Diameter	of Mi	ud o	f Cement	metriod or	riacement	
			-					
		<u> </u>	<del> </del>				<del></del>	
			<u> </u>					
			Sectio	n 5. PLUGGII	NG RECORD			
	ractor					r		
	od bo				No.	Depth in Feet Top Bot		ubic Feet Cement
te Well Plug	ged							,
ikkiuk abbio					$\frac{2}{3}$			
		State Eng	gineer Represe	entative	4			
te Received	October	27, 1986		OF STATE E	NGINEER ONL	Y		

Section 6. LOG OF HOLE

Section 6. LOG OF HOLE							
	in Feet	Thickness .	Color and Type of Material Encountered				
From	То	in Feet	Color and Type of Material Embountered				
			43				
_0	2	2	soil				
2	24	22	calecche				
_24	52	28	sand				
_52	82	30	gravel				
_82	100	18	red clay				
_02	100	1-20	164 (18)				
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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 form should be executed in triplicate, preferably typewritten, and submitted to coroniate district office of the State Engineer. All a except Section 5, shall be answered as completely and accurated sible when any well is drilled, repaired or deepened. When all sform is used as a plugging record, only Section 1(a) and Section 5 pet be completed.

	ost Office Add		k 692 1	atum,	N.M.	8826	ce, Inc.			
ell was drilled t	under Permit N	loCP-	701		and	is located	in the:			
a	4 E2 4	NW 4 S	N ¼ of Se	ction <u>1</u>	1 To	wnship	18-S. Ran	ige33	-E.	N.M.P.M
b. Tract N	o	_ of Map No		•	of the					
		f Block No								
d. X=	,	feet, Y=		fe	et, N.M. Co	ordinate	System			Zone is
										Grant
_							License No			
							Rotary			
							ft. Total depth			
mpleted well i		allow 🗆 ar					upon completion			
inpieted well	is all		on 2. PRIN		•		· ·	OI WELL		
Depth in		Thickness in Feet			n of Water-				imated Y	
From 54	То 84	30	1	ravel			(ganons per minut			
74	- 04			Tavel			40			
						· .				
			Sectio	n 3. REC	ORD OF C	ASING		I <del>.,</del>		
Diameter (inches)	Pounds per foot	Threads per in.	Depth Top	in Feet Botto		ength feet)	Type of Sho		Perfor From	ations To
6 5/8	•156								50	90
		Sectio	n 4. RECO	RD OF M	UDDING A	ND CEM	ENTING			
Depth in From	To	Hole Diameter	Sack of M		Cubic F of Ceme		Metho	od of Placement		
			Sectio	n 5. PLU	GGING RE	CORD				
						· · · · ·	T Part 1	East	Т-	
gging Method	·					No.	Depth in Top	Bottom		bic Feet Cement
gging approve						2				
		State Engir	neer Repres	ntative		<u>3</u>				
te Received	Octobe	r 27, 1986	FOR USE	OF STAT	TE ENGINE	ER ONL	.Y	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the 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		
ic Received	octobe	. 27, 1900			Quad		FWL_		FSL.	

			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	2	2	soil
2	22	20	caleche
22	54	34	sand
54	84	30	gravel
84	100	16	red clay
	<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 could be executed in triplicate, preferably typewritten, and submit the appropriate district office of the State Engineers could be executed in triplicate, preferably typewritten, and submit the appropriate district office of the State Engineers could be executed in triplicate, preferably typewritten, and submit the appropriate district office of the State Engineers could be executed in triplicate, preferably typewritten, and submit the appropriate district office of the State Engineers could be executed in triplicate, preferably typewritten, and submit the appropriate district office of the State Engineers could be executed in triplicate, preferably typewritten, and submit the appropriate district office of the State Engineers could be executed in triplicate, preferably typewritten, and submit the appropriate district office of the State Engineers could be executed in triplicate, preferably typewritten, and submit the appropriate district office of the State Engineers could be executed in triplicate, preferably typewritten, and submit the appropriate district office of the State Engineers could be executed in triplicate, preferably typewritten, and submit the appropriate district office of the State Engineers could be executed in triplicate, preferably typewritten, and submit the appropriate district office of the State Engineers could be executed in triplicate, and the state of the State Engineers could be executed in triplicate, and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the stat

~			STA	TE ENGI	NEER OF	FICE			
				WELL	RECOR	)		EIELD	EPOR. LO
	R	J. Wooley	Section 1.	GENER	AL INFO	RMATIO	N		
(A) Owner of	well	J. WOOLEY	-0.Box 20	7			Owner	's Well No	
Street or I	Post Office Ad	dress							
••			•						
Well was drilled	under Permit	No	288		and	i is locate	d in the:		
a	_ ¼ ¼	_SW ¼	SW ¼ of Sec	tion	12 T	ownship.	185 Ran	ge <b>33E</b>	N,M.P.M
b. Tract N	No	of Map No.			of the			-	
c. Lot No Subdiv	ision, recorded	of Block No		ea	of the Count	y.			
d. X=		_ feet, Y=		fe	et, N.M. C	oordinat	e System		Zone in
									Grant.
(B) Drilling C	ontractor	Lar	ry's Drit	ling			License No	WD882	<del></del>
Address		260	1 W. Beno	ler	Hobbs	NM 8	8240		
Drilling Began _	5-11-82	Com	oleted5	-11-82	Ту	pe tools_	button bit	Size of ho	le <b>0_7/4</b> n.
							ft. Total depth		•
Completed well	is 🗀 sh	nallow 🗀 a	irtesian.		Dep	th to wat	er upon completion	of well _60_	ft.
Donth i	n Foot		tion 2. PRING	CIPAL W	ATER-BE	ARING S	STRATA		1 27:11
From	Depth in Feet Thickness in Feet Description of Water-Bearing Formation					ed Yield er minute)			
60	80	20	sa	nd 8 🛊	ravel			60	
						1,0			
					,				
			Section	1 3. REC	ORD OF	CASING			
Diameter	Pounds	Threads	Depth			Length	Type of Sho	e <del></del>	rforations
(inches)	per foot	per in.	Тор	Botto	om [	(feet)		Fron	1 To
6 5/8	160PV	¢	+1	79		80		7.8. 6	50 79
		Secti	on 4. RECOR	D OF M	UDDING	AND CE	MENTING	,	
Depth i		Hole	Sack	s	Cubic	Feet		d of Placemen	nt
From	То	Diameter	of Mu	ıd	of Cen	nent			
			Section	n 5. PLU	GGING R	ECORD			
Plugging Contra Address	ctor						Donah in 1	Feet	Code P
Plugging Method						No.	Depth in l	Bottom	Cubic Feet of Cement
Date Well Plugge Plugging approv						1			
· Meering approv						3			
		State Eng	ineer Represe	ntative		4			

Date Received September 24, 1982 Quad 107. 2. 0 FWL FSL L-8288 Use COMMERCIAL Location No. 18.33.12.33334 File No._

FOR USE OF STATE ENGINEER ONLY

			Section 6, LOG OF HOLE
Depth in	n Feet To	Thickness in Feet	Color and Type of Material Encountered
0	2	2	blow sand
2	15	13	caliche
15	59	44	sand
*** **		20	gravel
XXX 59	79		
79	80	1	gray yellow clay
		-	:.
			L S Elev
			Capth to KTrc/7
			Elev of A Tree
			Loc. No. 35 12.5331 Hydro. Survey Field Check 15
			Hudro Survey Field Ob. 1. 1. 1/
			riyuto. Sulvey Field Check - 3
			SO HOE OF ALTITUDE GIVEN  Interpolated from Topo, Short X
, , , , ,			Determined by lest Louding
			Determined by Inst. Leveling
			Other

Section 7. REMARKS AND ADDITIONAL INFORMATION

Se 24 a la vision

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.

Jarry Selkens)
Driller Zy

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

			(A) O-	uner of wall	**	TP., 4	# * # #	
							illing Comm	
								ov lexico
								l is located in the
								Rge.
						inade -eva Vest Veshi		nse No. 10033
			•		-			liew liextee
				-	-			
			Drilling	was comm	encea	Hay 22		19 <b>55</b>
	lat of 640		•	-	Man	-		
levatior	n at top o	of casing i	n feet above	sea level.	Unown	Total de	pth of well	:og
								tion150
						ING STRATA		
ection 2					AIEK-DEAK	ING SIKAIA		
No.	Prom	in Feet	Thickness in	n [	De	scription of Wate	r-Bearing Formatio	n
	From							
1	150	205	55_	ater	sends			
2								
3								1.10.11.11.11.11.11
4					> .			
5								
	_			D.COO!	D OF CA	FINC.		
ection 3	3				RD OF CA	SING	1	
Dia	Pounds ft.	Thre	aus	Depth Bottom	Feet	Type Shoe	From	orations
in.			100	Bottom	<del> </del>			
6	20	8_		205	205	none	150	205
	ļ				400			
						·		
				1				i
ection 4	4		REC	ORD OF MU	DDING AN	ID CEMENTING		
		Diam			DDING AN	ND CEMENTING		
	4 in Feet To	Diam Hole i	eter Tor	ns No. S		ND CEMENTING	Methods Used	
Depth	n in Feet		eter Tor	ns No. S	acks of	ND CEMENTING	Methods Used	
Depth	n in Feet		eter Tor	ns No. S	acks of	ND CEMENTING		
Depth	n in Feet		eter Tor	ns No. S	acks of	ND CEMENTING		
Depth	n in Feet		eter Tor	ns No. S	acks of	ND CEMENTING	FEI	4 4 4
Depth	n in Feet		eter Tor	ns No. S.	acks of ment		FEI	4 4 4
Depth	To To		eter Tor	ns No. S.	acks of		F X S	9 1955 FICE - DUSCE
Depth From	To To To To To To To To To To To To To T	Hole i	eter Torn in. Cla	No. S. Y	acks of ment	ORD	F X S	9 1955
Depth From	To To To To To To To To To To To To To T	Hole i	eter Torn in. Cla	PLUG	acks of ment  GING REC	ORD	JUN 2 License W Stateson M.	9 1955 FICE
Depth From	To To To To To To To To To To To To To T	Hole i	eter Torn in. Cla	PLUG	acks of ment  GING REC	ORD	F X S	9 1955 FICE
Depth From	To To To To To To To To To To To To To T	Hole i	eter Torn in. Cla	PLUG	GING REC	ORD Ty	License W States of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of Pulls of P	9 1955 FICE TANISON
Depth From	t Pluggin	Hole i	eter Too n in. Cla	PLUG	GING REC	ORD Ty	JUN 2 License W States VIII	9 1955 FICE TANISON
Depth From	To To To To To To To To To To To To To T	Hole i	eter Torn in. Cla	PLUG	GING REC	ORD  Ty Date Plu Cement Plu Depth of B	License W GROUND States of roughage ugged ugged sewere placed a	9 1955 FICE TANISON
Depth From  ection 5 ame of treet arons of (lugging	To To To To To To To To To To To To To T	Hole i	eter Torn in. Cla	PLUG	GING REC	ORD  Ty Date Plu Cement Plu Depth of B	License W States of Purple of roughage ugged	9 1955 FICE TOWNSON 19 19 19
Depth From	f Pluggin Numb	Hole i	eter Torn in. Cla	PLUG f Roughage	GING REC	ORD  Ty Date Plu Cement Plu Depth of B	License W GROUND States of roughage ugged ugged sewere placed a	9 1955 FICE TOWNSON 19 19 19
Depth From ection 5 ame of treet are ons of clugging	f Pluggin Numb	Hole i	eter Torn in. Cla	PLUG f Roughage	GING REC	ORD  Ty Date Plu Cement Plu Depth of B	License W GROUND States of roughage ugged ugged sewere placed a	9 1955 FICE TOWNSON 19 19 19
Depth From	f Pluggin Numb	g Contraction with the second discontraction with the second d	eter Torn in. Cla	PLUG f Roughage	GING REC	ORD  Ty Date Plu Cement Plu Depth of B	License W GROUND States of roughage ugged ugged sewere placed a	9 1955 FICE TOWNSON 19 19 19
ection 5 (ame of treet are lons of clugging llugging	f Pluggin Numb	g Contraction with the second discontraction with the second d	eter Torn in. Cla	PLUG f Roughage	GING REC	ORD  Ty Date Plu Cement Plu Depth of B	License W GROUND States of roughage ugged ugged sewere placed a	9 1955 FICE TOWNSON 19 19 19
Depth From ection 5 fame of treet ar	f Pluggin Numb	g Contraction with the second discontraction with the second d	eter Torn in. Cla	PLUG f Roughage	GING REC	ORD  Ty Date Plu Cement Plu Depth of B	License W GROUND States of roughage ugged ugged sewere placed a	9 1955 FICE TOWNSON 19 19 19
Depth From ection 5 ame of treet arons of (lugging lugging Pluggin nd Numb	g Contraction with the second second by:	eter Torn in. Cla	PLUG f Roughage	GING REC	Date Plu Cement Plu Depth of I	JUN 2 License N States N States N To No. 0	9 1955 FICE TOWNSON 19. Is follows:	
Depth From  ection 5 ame of treet arons of (lugging lugging luggin Numb	g Contraction with the second second by:	eter Torn in. Cla	PLUG f Roughage	GING REC	Date Plu Cement Plu Depth of I	JUN 2 License N States N States N To No. 0	9 1955 FICE TOWNSON 19 19 19	

Depti	in Feet	Thickness		
From	То	in Feet	Color	Type of Material Encountered
0	10	10	white	Callions and rook
10	40	30	white	callions and rock
40	80	10	re4	dry sand
80	160	80	white	- ten agrana
160	200/	40	red	water conds
200	205	5	red	0187
				4089 /
				L S Elev
				L S Elev
				Loc. No./8.33,/2, 44/1221
				Hydro. Survey Field Check A
				SOURCE OF ALTITUDE GIVEN
				Interpolated from Topo. Sheet X
				Determined by Inst. Leveling
				Other
	<u> </u>			
			34.	
			`	

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 1. GENERAL INFORMATION FIELD ENGR. LUG

Owner of	well	B.J. Wood		7		Own	er's Well No.		
City and S	State	Ho	bbs, NM	88240					
			P-623		_ and is located	in the:			
a	· ¼ ¼	NW 1/4	NW ¼ of Sec	ction 13	Township	<b>18</b> 5 Ra	inge 3	3 <i>F</i>	N.M.P.
Subdiv	ision, recorded	d in	Lea	2(	County.				
		_ feet, Y=		feet, N		System			
			's Drilli	ing			មាបិននិង		G1a
B) Drilling Co	ontractor	2601 (	v. Bender	L H	obbs. NM	License No			
ddress									
rilling Began _	5-10-82	Comp	leted5_	10-82	_ Type tools	button bit	Size of		97/8
evation of lan	d surface or _			at we	ll is	ft. Total dept	h of well	82	
ompleted well	is □Š st	hallow 🗆 as	rtesian.		Depth to water	upon completio	n of well	60	
<b>,</b>							01 01		
Depth is	n Feet	Thickness			R-BEARING ST		Estin	nated Y	ield
From	То	in Feet			Water-Bearing F	ormation	(gallon	s per mi	inute)
70	80	10	sand & gravel				40		
	-								
	. *************************************			n 3. RECORD	OF CASING				
Diameter (inches)	Pounds per foot	Threads per in.	Depth Top	in Feet Bottom	Length (feet)	Type of Sh	oe Fr	Perfora om	tions To
6 5/8	160PVC		<i>+</i> 1	82	83		7	0	80
			,	<u> </u>					
<u> </u>		l							
Depth is	n Feet	Section Hole	n 4. RECOF		ING AND CEM				
From	To	Diameter	of Mu		f Cement	Meth	od of Placen	ent	
					L				
				n 5. PLUGGIN	IG RECORD				
						Depth is	n Feet	Cub	ic Feet
ugging Method ite Well Plugge			· · · · · · · · · · · · · · · · · · ·		No.	Тор	Bottom		Cement
ugging approve					1 2			<del></del>	
•		State Engi	neer Represe	entative	3				
					4				
			FOR HEE	OF CTATE E	CINEED ON	v			
ate Received	Santoni	om 26 100		OF STATE E	NGINEER ONL	1			
ite Received	Septembe	er 24, 1982				FWL		. FSL	

			Section 6. LOG OF HOLE
Depth	in Feet	Thickness	Colored Tree of Material Foresteed
From	То	in Feet	Color and Type of Material Encountered
0	6	6	blow sand
6	11	5	caliche
11	70	59	sand
70	80 XX	10X <b>XX</b>	gravel & sand
88	82	2	red bed
			L S Elev
			L S Elev 3989  Depth to K Trc 80  Elev of K Trc 3409
			EIGY UI Name II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II Canada II
			18 33. 13. 1/1/2
			Loc. No
			Hydro. Survey Freid Check > C
			SOURCE OF ALTITUDE GIVEN
			Interpolated from Topo. Sheet
			Determined by Inst. Leveling
	<u> </u>		Other
-			
			•

Section 7. REMARKS AND ADDITIONAL INFORMATION

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.

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



ll was drilled	l under Permi	t No	CP-6	589	and is located	in the:		
			_			L8-S Ra	33_	F NMI
					-	LO-DA RA	-	
				of the		<del></del>		
				feet, N.I		System		Zon
) Drilling C	Contractor	Glenn!	s Water	Well Ser	vice	_ License No¥	VD 421	
ldressBo	х 692 Т	atum, N.	M. 88267	?			-	
illing Began .	12/7/85	Com	ipleted 12/	<b>7/</b> 85	Type tools	rotary	Size of I	10le 9 7/8
evation of lar	nd surface or .			at well	is	_ ft. Total depti	of well	100
mpleted wel		shallow []				upon completion		
inpleted wel	115 - :					· ·	n or well	
Depth	in Feet	Thicknes	s	CIPAL WATER			Estim	ated Yield
From	То	in Feet		Description of V	(gallons per minute)			
70	95	25		gravel			120	
		<u> </u>			· · · · · · · · · · · · · · · · · · ·			
		1						
			Section	n 3. RECORD	OF CASING			
Diameter (inches)	Pounds per foot	Threads per in.	Top	in Feet Bottom	Length (feet)	Type of Sh	oe Fro	Perforations om To
102	.142	steel c					6	5 100
	, <u>• = 1,</u>							
Death	in Park	T-		RD OF MUDDI		ENTING		
Depth From	То	Hole Diameter	Sact of M		bic Feet Cement	Meth	od of Placem	ent
			Section	n 5. PLUGGIN	G RECORD			
ngging Contr	ictor					Depth in	Feet	Cubic Fee
dress					No.			
dress	d				No.	Тор	Bottom	of Cemen
dress	d				1 2		Bottom	of Cemen
dress egging Metho te Well Plugg	d						Bottom	of Cemen
dress igging Metho te Well Plugg	ded_by:	State En	gineer Repress	entative	3 4	Тор	Bottom	of Cemen
dress gging Metho te Well Plugg	d	State En	gineer Repress	of STATE EN	I 2 3 4 CHARLES ONLY	Тор		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

Section 6, 3 CG OF HOLE

Depth	in Feet	Thickness	Color and Type of Material Encountered
From	То	in Feet	Color and Type of Material Encountered
0	5	5	sand
5	29	24	caleche
29	65	36	sand
65	95	30	gravel
95	100	5	yellow clay
		-	
	<del> </del>	-	
	-		
-		-	
	<del> </del>	-	
	<del> </del>		
	-		
		1	
			EE COL
****			- C
		S4 7	T DEMARKS AND ADDITIONAL INFORMATION

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 defended in triplicate, preferably typewritten, and submitted to of the State Engineer. All the second Section 5, shall be answered as completely and accurately drilled repaired or deepened. For this form is used as a plugging record, only Section 1(a) and Section 6.

ropriate district office ssible when any well is be completed.

# Section 1. GENERAL INFORMATION KMR, INC.

ell was drilled	under Permit N	No. CP-76	9-EXPLC	RATORY	and is located	in the:		
						18s Ran	ge 33E	N,M,P.
	oc vision, recorded						<b>.</b>	
d. X=		feet, Y=				System	<del></del>	
the		I ARRY	'S DRII	I ING.	INC.		wD882	Gran
) Drilling (	Contractor	2116	W DENT	1ED UNI	BBS, NM 88	License No		
ldress	5 02				· · · · · · · · · · · · · · · · · · ·		.,,	
						BUTTON BIT		
evation of la	nd surface or	·	·	at v	vell is	ft. Total depth	of well	112
mpleted wel	lis 🗓 sh	allow 🗖 a	rtesian.		Depth to water	upon completion	of well	<u> </u>
		Sec	tion 2. PRIN	CIPAL WAT	ER-BEARING ST	RATA		
Depth From	in Feet To	Thickness in Feet	I	Description of	of Water-Bearing F	ormation	Estimate (gallons pe	ed Yield er minute)
	115	35	CAN	SAND & SANDSTONE				
<del>80</del>	117	35 SAND & SANDSTONE 20						
					·····			
				···································				
		· ·		n 3. RECOR	D OF CASING	1		rforations
Diameter (inches)	Pounds per foot	Threads per in.	Тор	Bottom	Length (feet)	Type of Sho	e From	
6 5/8	160pvc		0	115	115		90	110
			_					
		Secti	on 4. RECO	RD OF MUI	DDING AND CEM	IENTING		
Depth From	in Feet To	Hole Diameter	Sacl of M		Cubic Feet of Cement	Metho	od of Placemen	t
			-					
		<u></u>	<u> </u>			<del></del>		
	<u> </u>		1	<u> </u>				·
					ING RECORD			
ugging Conti ddress	ractor				No.	Depth in	Feet	Cubic Feet
-	odged				No.	Тор	Bottom	of Cement
lugging appro	_				2			
		State Eng	ineer Repres	entative	3 4			
	M 0~	1000	FOR USE	OF STATE	ENGINEER ONI	.Y		
ate Received	May 21,	. 1992						

			Section 6. LOG OF HOLE
	in Feet	Thickness	Color and Type of Material Encountered
From	12	in Feet	
12	21	9	SAND
21			CALICHE
	36	15	SAND & GRAVEL
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
***************************************			
-			29 9
	<u> </u>		92 711 ***********************************
		Section	7. REMARKS AND ADDITIONAL INFORMATION  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 form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All the ons, except Section 5, shall be answered as completely and accurate possible when any well is drilled, repaired or deeper than this form is used as a plugging record, only Section 1(a) and Section 2 de be 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 1			(A) O	or of wall	Sah	ambauan Cat	tle Comment	
						1471	-	
		İ						ezas
<u> </u>	700					•	•	d is located in the
	1	100	~					Rge. 33E
		1					-	nse No.WD99
1		İ	1 ' '	-				mse 110.15.23.3
			1			-		ew Maxico
								19 68
		}	_					19 68
(P)	lat of 640 ac	res)	— Drining w	as comple	: iea	uly		19
Elevation	at top of	casing in	feet above se	a level		Total de	pth of well 1	.70
								tion 130
Section 2						RING STRATA		
No.	Depth in	Feet	Thickness in		De	escription of Water	r-Bearing Formation	on .
	From	То	Feet					
1				Clean	ed out	old well.		
2								*********************
3	1							
4								
5								
Section 3				RECOR	D OF CA	SING		
			s Dej		1		Perfe	prations
Dia in.	Pounds ft.	Thread	Top	Bottom	Feet	Type Shoe	From	То
6	10				· · · · · · · · · · · · · · · · · · ·			
0								
					·			
		<del>                                     </del>						
<u>'</u>								
Section 4		1		1		ND CEMENTING		
Depth From	in Feet	Diamete Hole in		No. Sa Cem	1		Methods Used	
	ļ							
	·	<b></b> _	<del></del>					
			<u> </u>					
Section 5				PLUGG	ING REC	ORD		
Name of	Plugging	Contracto	or				License No	)
					-			
						-		19
<b>Q</b> 0 0	approved						gs were placed a	
00 0		•				Depth of P	lug	
			Basin Sup	ervisor	No.	0.	No. o	f Sacks Used
	FOR USE	OP-CTV-TE	ENGINEER O	NLY.	7 [			
	ZOIL USE	T		- ,				
Date F	leceived	<b>F</b> .	L !: .					
		JL	JL 22 1968					
		1			-		1	412.2
			OFFICE WATER SUFFERV	(ICOR				
File No.	1-6347		VELL, NEW MEXICO		SET	cle Locatio	n No. 18.3	3.12.440

### Section 6

### LOG OF WELL

	n Feet	Thickness	Color	Type of Material Encountered
, rom	То	in Feet	Colu	Type of material emodulities
				Cleaned out old well.
				ATAGUAG ONE OTO MATTA
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		<del> </del>		
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		1		
		<del>                                     </del>		
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	70 3.0			
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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

ell Driller

COBA



#### 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				**************************************	TF 9554				
Γ	T						n			
			Street and Number Star Route B.  City Hobbs State New Mexico							
	-							is located in the		
								Rge33 E		
			ı				to Licer	-		
			1 ' '	•			IMCEI			
							State N			
							State .x:			
		1								
	(Plat of 640	acres)	—— Drining	was compr	e rea			19_2:		
Elevati	on at top o	of casing	in feet above s	ea level		Total de	pth of well	100		
							ter upon comple			
Section	9		PDI	NCIPAL W	ATER_REAR	ING STRATA				
	·	in Their	Thickness in	I I I	ATER-DEAK	ING SIRAIA				
No.	From	Depth in Feet			De	Description of Water-Bearing Formation				
1 20										
	70	_97	27	Red	sand ar	d send roo	k .			
- <u>-</u>										
3										
4										
5			<u> </u>							
Section	3			RECO	RD OF CAS	SING				
Dia	Pounds	Thre	ads D	epth	1	Perforations				
in.	ft.	i		Bottom	Feet	Type Shoe	From	То		
6 ⁵ /8	20	non	. 0	100	100	none	75	100		
					<u> </u>					
						ļ				
	<u> </u>			1		1	<u> </u>			
Section	4		RECO	RD OF MU	DDING AN	D CEMENTING				
Depth in Feet   Diameter		neter Tons								
From To		Hole				Methods Used				
	_	-		_						
Section	5			PLUG	SING REC	ORĐ				
	02 .	_					License No			
					_		State			
	-			-			pe of roughage			
-	•						igged			
Pluggin	g approve	d by:				Cement Plu	gs were placed as	follows:		
_			Basin Sı		No	Depth of P	No. of	Sacks Used		
			Basin St	ipervisor	<b>-,</b>	From 7	ro			
	FOR US	E OF STA	TE ENGINEER	ONLY				A 17		
								- d 1()		
Date Received							A71.1	77 19		
								FFICE		
							ration v	AT P CHAPTURE		
mu	. L-3	24-11	,	Use (		T	n No. 18.33	30 220		
TIP N	n =	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		USP (#//	TITI.	Locatio	n No 1013.	//		

Depth	in Feet	Thickness	6.1	Type of Material Encountered		
OFrom	1 ^{To}	in Feet	Color Brown			
1	25	24	White	Cleachie and rock		
25	50	25	Grey	Sandy chole		
50	97	47	Red	Sand and sand rock		
7		3		l e e e e e e e e e e e e e e e e e e e		
L	100	1 -	Brown	Quartsite		
	<u> </u>					
				L S Elev  Depth to KTrc  Elev of KTrc		
				Depth to KTrc		
	<del> </del>	<del> </del>		Elev of K Trc		
	-	<del> </del>				
	<del> </del>	<del> </del>				
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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.

1 pu