



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE ENGINEER OFFICE
ALBUQUERQUE, NEW MEXICO

2012 MAY 24 AM 10:57
2B

1. GENERAL AND WELL LOCATION	POD NUMBER (WELL NUMBER) POD 2				OSE FILE NUMBER(S) RG-86336			
	WELL OWNER NAME(S) Deer Canyon Preserve Shared Well, Association DCP2-P				PHONE (OPTIONAL) 915-225-3175			
	WELL OWNER MAILING ADDRESS C/O Verde Heritage Ranch, LLC, 201 E. Main, Suite 403				CITY El Paso	STATE TX	ZIP 79901	
	WELL LOCATION (FROM GPS)	DEGREES 34	MINUTES 27	SECONDS 42.00 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
	LONGITUDE 106	15	3.00 W	* DATUM REQUIRED: WGS 84				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS Located on the north side of Deer Canyon Trail, one mile before Daklugie Road								
2. OPTIONAL	(2.5 ACRE) 1/4	(10 ACRE) 1/4	(40 ACRE) 1/4	(160 ACRE) 1/4	SECTION	TOWNSHIP <input type="checkbox"/> NORTH <input type="checkbox"/> SOUTH	RANGE <input type="checkbox"/> EAST <input type="checkbox"/> WEST	
	SUBDIVISION NAME Deer Canyon Preserve Phase 2				LOT NUMBER	BLOCK NUMBER	UNIT/TRACT	
	HYDROGRAPHIC SURVEY				MAP NUMBER	TRACT NUMBER		
3. DRILLING INFORMATION	LICENSE NUMBER WD-1458	NAME OF LICENSED DRILLER Richard LeBlanc			NAME OF WELL DRILLING COMPANY Yellow Jacket Drilling Services			
	DRILLING STARTED 3/11/12	DRILLING ENDED 4/18/12	DEPTH OF COMPLETED WELL (FT) 1,097	BORE HOLE DEPTH (FT) 1,097	DEPTH WATER FIRST ENCOUNTERED (FT) 401			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 401			
	DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" type="checkbox"/> MUD <input type="checkbox"/> ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY: Reverse Circulation							
	DEPTH (FT)		BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)
	FROM	TO						
	+2	300	14.75	Steel	Weld	10.25	.25	N/A
	+2	897	9.875	PVC	Groove/Spline	4.95	.291	N/A
	897	1,097	9.875	PVC	Groove/Spline	4.95	.291	.32
4. WATER BEARING STRATA	DEPTH (FT)		THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)			YIELD (GPM)	
	FROM	TO		See attached Log			2	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA Flow Meter						TOTAL ESTIMATED WELL YIELD (GPM) 2		

FOR OSE INTERNAL USE

FILE NUMBER **RG-86336**

POD NUMBER **2**

WELL RECORD & LOG (Version 6/9/08)

LOCATION **X=11639861, Y=1259672, Central Zone**

TRN NUMBER **494778**

PAGE 1 OF 2

NE NE NW 30, 3N, 7E

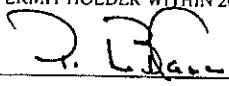
5. SEAL AND PUMP	TYPE OF PUMP: <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> JET <input checked="" type="checkbox"/> NO PUMP - WELL NOT EQUIPPED <input type="checkbox"/> TURBINE <input type="checkbox"/> CYLINDER <input type="checkbox"/> OTHER - SPECIFY:						
	ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT)		BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
		FROM	TO				
		0	300	14.75	Neat Cement	180	Tremi Pipe
561	566	9.875	Bentonite Chips	3	Tremi Pipe		
566	1,097	9.875	8-12 Silica Sand	250	Tremi Pipe		

6. GEOLOGIC LOG OF WELL	DEPTH (FT)		THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?
	FROM	TO			
				See attached log	<input type="checkbox"/> YES <input type="checkbox"/> NO
					<input type="checkbox"/> YES <input type="checkbox"/> NO
					<input type="checkbox"/> YES <input type="checkbox"/> NO
					<input type="checkbox"/> YES <input type="checkbox"/> NO
					<input type="checkbox"/> YES <input type="checkbox"/> NO
					<input type="checkbox"/> YES <input type="checkbox"/> NO
					<input type="checkbox"/> YES <input type="checkbox"/> NO
					<input type="checkbox"/> YES <input type="checkbox"/> NO
					<input type="checkbox"/> YES <input type="checkbox"/> NO
					<input type="checkbox"/> YES <input type="checkbox"/> NO
					<input type="checkbox"/> YES <input type="checkbox"/> NO
					<input type="checkbox"/> YES <input type="checkbox"/> NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

7. TEST & ADDITIONAL INFO	WELL TEST	METHOD: <input type="checkbox"/> BAILER <input checked="" type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> OTHER - SPECIFY:
	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.	
	ADDITIONAL STATEMENTS OR EXPLANATIONS:	

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8. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 _____ SIGNATURE OF DRILLER	<u>5/18/2012</u> _____ DATE

FOR USE INTERNAL USE		WELL RECORD & LOG (Version 6/9/08)	
FILE NUMBER	RG-86336	POD NUMBER	2
LOCATION	x=1639861, y=1259672, Central zone	TRN NUMBER	494778
NE NE NW 30, 3N, 7E		PAGE 2 OF 2	

DRAFT AS BUILT WELL COMPLETION DIAGRAM

JOHN SHOMAKER & ASSOCIATES, INC.

WATER-RESOURCE AND ENVIRONMENTAL CONSULTANTS

2611 BROADBENT PARKWAY NE
ALBUQUERQUE, NEW MEXICO 87107
(505) 345-3407, FAX (505) 345-9920
www.shomaker.com

DATE: 4/22/2012

CLIENT: Verde Heritage Ranch

PROJECT: Deer Canyon Preserve

LOCATION: Mountainair

WELL NAME: 2B-Replacement

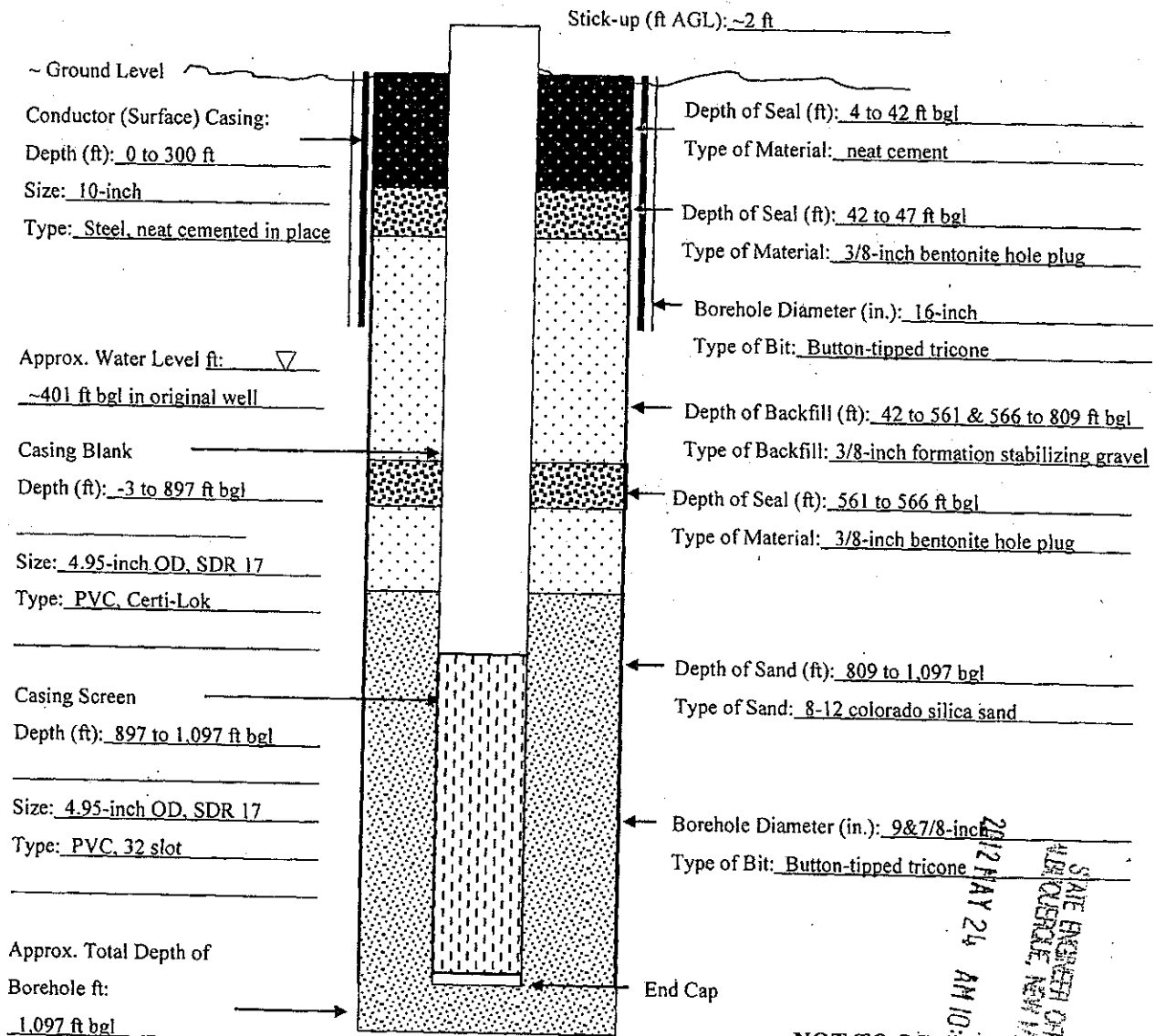
GEOLOGIST: SAF

Drilling Contractor: Yellow Jacket Drilling

Rig Type: Versa-Drill

Notes: OSE number: RG-86336

Pilot hole drilled to 300 with 9&7/8-inch button tipped tricone with opener to 16-inches. Casing set, cemented, then 9&7/8-inch button tipped tricone drilled to 1,097 ft bgl



NOT TO SCALE

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BOREHOLE LOGGING FORM

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 WATER-RESOURCE AND ENVIRONMENTAL CONSULTANTS
 2611 BROADBENT PARKWAY NE
 ALBUQUERQUE, NEW MEXICO 87107
 (505) 343-3407, FAX (505) 343-9920
 www.shomaker.com

DATE: 4/8/2012
 CLIENT: Verde Corporate Realty
 PROJECT: Deer Canyon Preserve
 LOCATION: Mountainair, NM
 HOLE NAME: 2B Redrill
 GEOLOGIST: SAM

Contractor: Yellow Jacket Drilling

Notes: Samples collected over 10 ft interval at end of blue line to 300; cyclone to TD. Logged wet; rinsed.

Rig: Star-HOKCH Versa Drill

Drilling bit: 9 7/8 inch button tipped tricone w/ 16 to open to 200 ft. 9 7/8 inch button tipped tricone to 1,100 ft.

Drilling method: RC "mud": dual walled pipe

foam to 300; assisted flooded reverse to TD

Depth, ft bgl	Description	ss: sandstone	v: very	rb: reddish-brown	Rx: reaction	HCl: 10% sol'n HydroChloric acid	fg: fine grained
		sl: slight	pc: pieces				
0-10	Soil	brown, silty, strong Rx to HCl					
10-40	Silt/siltstone	mostly brown to grey brown, strong Rx to HCl, more indurated w/ depth.					
40-50	anhydrite	pink, soft, some nodules w/ irregular. No Rx to HCl					
50-60	anhydrite + ss	75% anhydrite as 40-50					
60-70	Sand	fg, sand, grains rounded, clear, overall rb. No Rx to HCl ~ 90% ~ 10% anhydrite as 40-50					
70-90		no returns / no sample					
90-100	Silt/siltstone	as 10-40.					
100-140		no returns / no sample					
140-150	anhydrite + silt/siltstone	anhydrite grey to white, rounded pcs, no Rx to HCl.					
150-240	anhydrite + sandstone/sand	anhydrite as 140-150 ~ 29% ~ 10% rb fg ss / sand rounded grains					
240-270	anhydrite + ss/sand	as 150-240					
270-290	ss + anhydrite	as 150-210					
290-300	ss + anhydrite	anhydrite ~ 10% as 150-240, rb ss 25% as 150-240					
300-310	Sandy siltstone	rb, some fg, sand, rounded grains, siltstone. Strong Rx to HCl: 95% ~ 5% anhydrite as 140-150					
310-330	Silt	rb, strong Rx to HCl.					

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BOREHOLE LOGGING FORM

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 www.shomaker.com

DATE: 4/8/12
 CLIENT: Verde Corporate Realty
 PROJECT: Deer Canyon Preserve
 LOCATION: Mountainair, NM
 HOLE NAME: 2B Redrill
 GEOLOGIST: SAM F

Contractor: Yellow Jacket Drilling
 Rig: Star 120K
 Drilling bit: 1/2-inch button tipped tricone
 Drilling method: RC "mud"; dual walled pipe

Notes: Samples collected over 10 ft interval at end of
 bluey line to 300; cyclone to TD. Logged wet; rinsed.
 foam to 300; assisted flooded reverse to TD

Depth, ft. bgl	Description <small>ss:sandstone v:very rb:reddish-brown Rx:reaction HCl:10% sol'n-HydroChloric acid fg:fine grained sl:slight pos:pieces</small>
330 → 340	anhydrite + SS as 340 → 370 95% anhydrite 5% S.S
340 → 360	SS v.f.g., grey, no Rx to HCl
360 → 370	silt rb, strong Rx to HCl, some induration
370 → 390	SS f.g., rb, no Rx to HCl
390 → 400	clay rb, soft, no Rx to HCl
400 → 410	anhydrite + SS 25% rb anh, 25% grey s anh 25% rb SS, 25% grey SS
410 → 420	clay as 390 → 400
420 → 430	silt rb, no Rx to HCl
430 → 440	Silty clay rb, soft, no Rx to HCl
440 → 460	Silt/siltstone rb, no Rx to HCl more indurated w/ depth
460 → 470	clayey silt grey, some induration, no Rx to HCl
470 → 480	SS as 340 → 360
480 → 500	NO RETURNS / NO SAMPLE
500 → 510	SS as 340 → 360
510 → 530	siltstone grey, no Rx to HCl

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DATE: 4/8/2012
 CLIENT: Verde Corporate Realty
 PROJECT: Deer Canyon Preserve
 LOCATION: Mountainair, NM
 HOLE NAME: 2B Redrill
 GEOLOGIST: SAM F

Contractor: Yellow Jacket Drilling
 Rig: Star LORCH
 Drilling bit: 1/2 inch button tipped tricone
 Drilling method: RC "mud"; dual walled pipe

Notes: Samples collected over 10 ft interval at end of blue line to 300; cyclone to TD. Logged wet; rinsed foam to 300; assisted flooded reverse to TD

Depth, ft bgl	Description	ss:sandstone	v:very	rb:reddish-brown	Rx:reaction	HCl:10% sol'n HydroChloric acid	fg:fine grained
		st:slight	pcs:pieces				
530 → 540	Clayey siltstone						Soft grey clay ~10%, siltstone as 510 → 530
540 → 550	ss grey, v.f.g., no Rx to HCl						
550 → 600	Clayey silt			rb, sticky, soft, slick, no Rx to HCl. inc. clay content w/ depth			
600 → 630	Anhydrite			reds, greys, whites - soft, scratches w/ finger nail, no Rx to HCl			
630 → 640	Clayey silt						as 550 → 600
640 → 650	silt			rb, no Rx to HCl			
650 → 660	Anhydrite			mostly greys, soft, no Rx to HCl			
660 → 680	silty clay			rb, soft, slick, sticky, no Rx to HCl			
680 → 700	silt/siltstone			rb, no Rx to HCl			
700 → 750	clay			rb, soft → med. stiff, no Rx to HCl			
750 → 770	clay			grey, soft → med. stiff, no Rx to HCl			
770 → 800	silt/siltstone			silt is rb, siltstone mostly fb, some grey pcs			
800 → 830	silty clay			as 660 → 680			
830 → 860	clay			as 750 → 770			
860 → 870	clay			35% as 750 → 770 + 65% as 700 → 750			

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www.shomaker.com

DATE: 4/9/2012

CLIENT: Verde Corporate Realty

PROJECT: Deer Canyon Preserve

LOCATION: Mountainair, NM

HOLE NAME: 2B Redrill

GEOLOGIST: SAM F

Contractor: Yellow Jacket Drilling

Notes: Samples collected over 10 ft interval at end of bluey line to 300; cyclone to TD. Logged wet; rinsed.

Rig: Star TOUCH Ser P² 1

Drilling bit: 1-inch button tipped tricone

Drilling method: RC "mud"; dual walled pipe

foam to 300; assisted flooded reverse to TD

Depth, ft bgl	Description ss:sandstone v:very rb:reddish-brown Rx:reaction HCl:10% sol'n HydroChloric acid fg: fine grained st:slight pcs:pieces
870 → 880	silt/siltstone as 770 → 800
880 → 890	clay as 750 → 770
890 → 910	clay as 700 → 750
910 → 920	anhydrite as 650 → 660
920 → 930	SS lt. grey → white, f.g., grains rounded, no Rx to HCl, pcs sub &
930 → 960	SS rb, f.g., grains rounded, no Rx to HCl, pcs sub &
960 → 970	SS 40% rb as 930 → 960; 60% lt. tan, f.g., grains rounded, no Rx to HCl, pcs sub rounded
970 → 980	SS lt tan as 960 → 970
980 → 1000	SS as 930 → 960
1000 → 1010	SS 90% grey brown, f.g., pcs &, no Rx to HCl 10% rb as 930 → 960
1010 → 1020	SS rb as 930 → 960
1020 → 1030	SS dk grey, v.f.g., pcs &, no Rx to HCl
1030 → 1050	SS rb as 930 → 960 95% 5% grey ss
1050 → 1060	SS grey as 1020 → 1030
1060 → 1097	SS rb & as 930 → 960 95% 5% grey as 1050 → 1060

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