1R-427-213

REPORTS

2-6-07

EME Jct D-6 Vent

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1R-427-213

RECEIVED

APR - 4 2007 Environmental Bureau Oil Conservation Division

CLOSURE

RICE OPERATING COMPANY JUNCTION BOX FINAL REPORT

DOVIOONTION

]	SUX LUCA	HON					
SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	NEW BOX	DIMENSIO	NS - FEET	7
EME	D-6 vent	D	6	215	36E	Lea	Length	Width	Depth	
	D-0 vent		0	213	JUE	Lea	no bo	ox jct. elimi	nated	
LAND TYPE: B	LMST/	ATE X	FEE LAND	OWNER			OTHER			
Depth to Groun	dwater	135	feet	NMOCD 8	SITE ASSE	SSMENT F	ANKING S		0	
Date Started	8/10/20	006	Date Cor	npleted	10/4/2006		DWitness		no	
Soil Excavated	400	cubic yai	rds Exc	avation Ler	ngth <u>30</u>	Width	30	Depth	12	feet
Soil Disposed	84	cubic yar	rds Offs	site Facility	Sund	ance	Location	Eur	nice, NM	
NAL ANALY	TICAL RES	SULTS:	Sampl	e Date	8/24/20 10/18/2	,	Sample De	pth	12, 45 ft	

5-point composite sample of bottom and 4-point composite sample of excavation sidewalls. TPH and chloride laboratory test results completed by using an approved laboratory and testing procedures pursuant to NMOCD guidelines.

Sample PID (field) GRO DRO Chloride Location mg/kg ppm mg/kg mg/kg 0.4 <10.0 <10.0 1300 4-WALL COMP <10.0 1.2 <10.0 1400 BOTTOM COMP <10.0 <10.0 1260 3.9 BACKFILL SOIL BORING 0.0 XXX XXX 16

CHLORIDE FIELD TESTS

LOCATION	DEPTH (ft)	ppm				
30 x 30 x 12 excavation						
4-wall comp.	n/a	1020				
bottom comp.	12	1066				
backfill	n/a	1023				

20	1156
25	604
30	143
35	116
40	90
45	57
	25 30 35 40

General Description of Remedial Action:

This junction was eliminated with the pipeline upgrade/replacement program. After the box lumber was removed, the site was delineated using a backhoe to collect soil samples at regular intervals. Chloride field tests and OVMs were performed on each of the samples producing a 30 x 30 x 12-ft-deep excavation. Although headspace vapor concentrations were very low, chloride concentrations increased with depth. The excavated soil was blended on site and then returned to the excavation to 6 ft BGS where a clay barrier was

installed. 84 cubic yards of the remaining fill was hauled to a disposal facility. The remainder of the excavation was filled to 2-3 ft BGS. Clean soil was imported to backfill the remainder to the surface and contoured to the surrounding terrain. To further investigate the depth of chloride penetration, a soil boring was initiated on 10/18/2006. The soil bore was advanced to a depth of 45 ft BGS when a trend of very low chloride concentrations could be confirmed, indicating non-saturated historical vadose conditions. The bore hole was plugged with bentonite clay and the 45-ft sample was analyzed at a laboratory to confirm the field tests. Hydrocarbons were not constituents of concern at this site and OCD TPH guidelines were met. On 10/4/2006, the disturbed surface was seeded with a blend of native vegetation and is expected to return to productive capacity at a normal rate.

enclosures: photos, lab results, PID field screenings, chloride graph, disposal manifests, excavation profile, driller's diagram

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SITE SUPERVISOR	rnell Mitchell SIGNATURE	Daniely	these COMPANY	RICE Operating Company
REPORT ASSEMBLED BY	Kristin Farris Pope	SIGNATURE	Kninin da	in Pope
DATE	2/6/2007	TITLE	Projec	t Scientist

EME D-6 vent

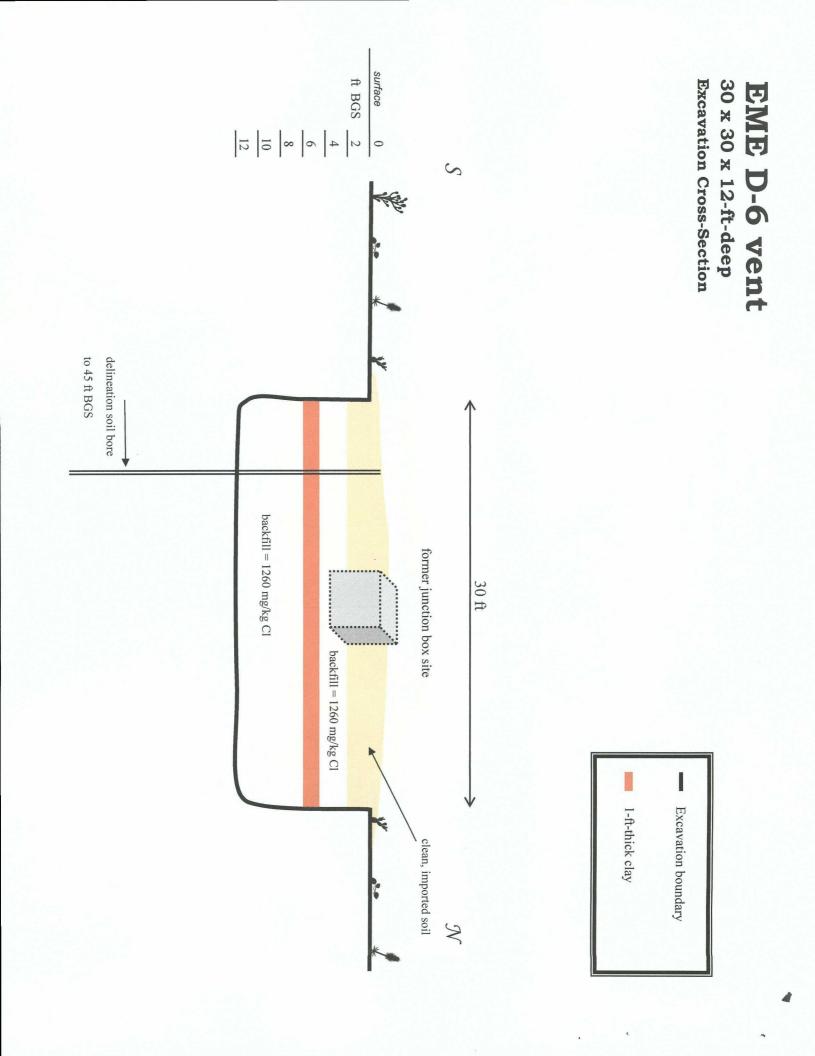


delineation & excavation; collecting soil samples Aug. 2006

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P.O. Box 1737 ★ Eunice, New Mexico 88231

Ticket # 25214
Lease Operator/Shipper/Company:
Lease Name: 15/11+ Vig MtD-(D-1)
Transporter Company: A The Dolling Time AM/PM
Ina-na mon)
Date: Vehicle No. Vehicle No. Driver No.
Charge To: Cr. Cr. Child All March
Produced Water Drilling Fluids Completion Fluids
Tank Bottoms Contaminated Soil C-117 No.:
Other Materials BS&W Content:
Description:
VOLUME OF MATERIAL BBLS. ARDS
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY
ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.
THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter. Statement at the above described location, and that it was tendered by the above described shipper. This wil certify that no additional materials were added to this load, and that the material was delivered withou incident.
DRIVER
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FACILITY REPRESENTATIVE: A Manual A Change A Cha

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P.O. Box 1737 ★ Eunice, New Mexico 88231

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P.O. Box 1737 ★ Eunice, New Mexico 88231

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_ c	Other Materials		BS&W Content:		
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0	Description:				CALLOUT
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TICKET, TRAN		VARRANT	'S THAT ONLY THE MATE	RIAL DEL	ATERIALS SHIPPED WITH THIS JOB IVERED BY OPERATOR/SHIPPER TO FACILITY FOR DISPOSAL.
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FACILITY R	EPRESENTATIVE:	$\underline{+}$		كر المريحات	: \

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P.O. Box 1737 🖈 Eunice, New Mexico 88231

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Lease Name:	EME	Ken	<u>nt 1)-(</u>	<u> </u>	.)
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🗌 Tank	Bottoms		Contaminated Soil		C-117 No.:
Othe	r Materials		BS&W Content:		
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		<u>~</u>			
DRIVER:	and and	Y			
FACILITY REPF	RESENTATIVE:	A.	<u>U.</u>		

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P.O. Box 1737 🖈 Eunice, New Mexico 88231

Jicket # -25109
Lease Operator/Shipper/Company:
Lease Name: ELAE HQUITAL - Q
Transporter Company:
Date: 10-2-00 Vehicle No. 100 Driver No.
De CELLINDUNG+
Charge To: <u>VIII ANNALIAA AN</u>
TYPE OF MATERIAL
Produced Water Drilling Fluids Completion Fluids
☐ Tank Bottoms K Contaminated Soil ☐ C-117 No.:
Other Materials BS&W Content:
Description:
VOLUME OF MATERIAL BBLS. ARDS
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE. CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.
ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.
THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.
DRIVER:

,s. 6 g		Box 1737 \star E	Services unice, New Mex 394-2511	-	
Lease N	orter Company:	pany: 10 MIDS (ehicle No) DI Hatt) [ime Driver	AM/PM
		TYPE O	F MATERÍAL	, , , ,	
	Produced Water	Dril	ling Fluids		Completion Fluids
	Tank Bottoms	Cor	taminated Soil		C-117 No.:
	Other Materials	BS8	W Content:		
	Description:)			JETOUT CALLOUT
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JOB TICKI MATERIAI TIME, 40 U BY VIRTU WITH THE ALS TICKET, T	L EXEMPT FROM THE RESOU J.S.C. 6901, ET SEQ., THE NM E OF THE EXEMPTION AFFO E EXPLORATION, DEVELOPM	RESENTS AND WARR JRCE, CONSERVATIO HEALTH AND SAF. C RDED DRILLING FLU IENT OR PRODUCTIC DANCE SERVICES. IN AND WARRANTS TH	ANTS THAT THE WAS N AND RECOVERY A ODE 361.001 ET SEQ JIDS, PRODUCED WA N OF CRUDE OIL OR C.'S ACCEPTANCE O. AT ONLY THE MATER	STE MAT CT OF 19 , AND RE TERS, AN NATURA F THE MA	ERIAL SHIPPED HEREWITH IS 76, AS AMENDED FROM TIME TO GULATIONS RELATED THERETO, ID OTHER WASTE ASSOCIATED AL GAS OR GEOTHERMAL ENERG ATERIALS SHIPPED WITH THIS JC IVERED BY OPERATOR/SHIPPER
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P.O. Box 1737 ★ Eunice, New Mexico 88231

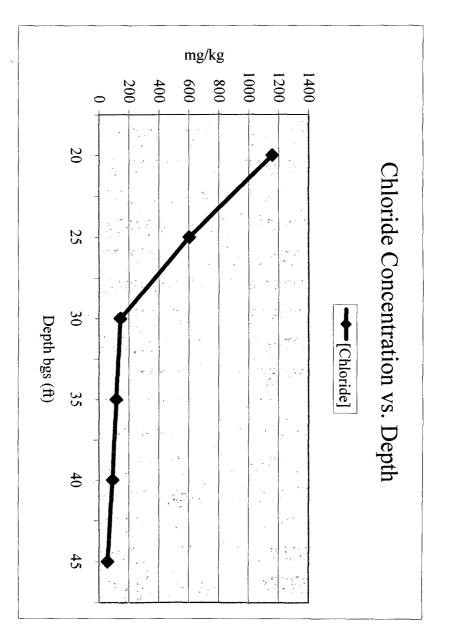
		<u> </u>	Ticket # 25260
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	Tank Bottoms	Contaminated Sc	Dil C-117 No.:
	Other Materials	BS&W Content:	
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VOLUME	OF MATERIAL	BBLS.	QARDS
IOB TICKE MATERIAL TIME, 40 U BY VIRTUE WITH THE ALSC FICKET, TF	T, OPERATOR/SHIPPER REPRESE EXEMPT FROM THE RESOURCE S.C. 6901, ET SEQ., THE NM HEA OF THE EXEMPTION AFFORDEI EXPLORATION, DEVELOPMENT O AS A CONDITION TO SUNDANC CANSPORTER REPRESENTS AND	NTS AND WARRANTS THAT TH C, CONSERVATION AND RECOVE LTH AND SAF. CODE 361.001 ET D DRILLING FLUIDS, PRODUCE OR PRODUCTION OF CRUDE O CE SERVICES, INC.'S ACCEPTAN WARRANTS THAT ONLY THE M	F THE MATERIALS SHIPPED WITH THIS IE WASTE MATERIAL SHIPPED HEREWITH IS ERY ACT OF 1976, AS AMENDED FROM TIME TO T SEQ., AND REGULATIONS RELATED THERETO, ED WATERS, AND OTHER WASTE ASSOCIATED WIL OR NATURAL GAS OR GEOTHERMAL ENERGY INCE OF THE MATERIALS SHIPPED WITH THIS JOB MATERIAL DELIVERED BY OPERATOR/SHIPPER TO ERVICES, INC.'S FACILITY FOR DISPOSAL.
Statement certify the incident.	at the above described loca	ution, and that it was tender	the material represented by this Transporte. red by the above described shipper. This will nd that the material was delivered withou
DRIVER:	REPRESENTATIVE	ie. T.e.	

SOIL BORING at former junction site

45	40	35	30	25	20	Depth bgs (ft)
57	90	116	143	604	1156	[Cl] mg/kg

Groundwater = 153 ft

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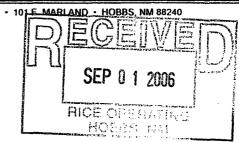
RICE Operating Company



PHONE (325) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79603

PHONE (505) 393-2326 • 101

ANALYTICAL RESULTS FOR **RICE OPERATING CO.** ATTN: ROY R. RASCON 122 W. TAYLOR **HOBBS, NM 88240** FAX TO: (505) 397-1471



Receiving Date: 08/24/06 Reporting Date: 08/28/06 Project Number: NOT GIVEN Project Name: EME VENT D-6 Project Location: NOT GIVEN

Sampling Date: 08/24/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: BC/HM

	GRO	DRO	
	$(C_6 - C_{10})$	$(>C_{10}-C_{28})$	
AMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)
	08/25/06	08/25/06	08/25/06
WALL COMP. 30x30x12	<10.0	<10.0	1300
PT. BOTTOM COMP.	<10.0	<10.0	1400
ACKFILL BLEND	<10.0	<10.0	1260

LAB NUMBER SA

ANALYSIS D	ATE	08/25/06	08/25/06	08/25/06
H11476-1	4 WALL COMP. 30x30x12	<10.0	<10.0	1300
H11476-2	5 PT. BOTTOM COMP.	<10.0	<10.0	1400
H11476-3	BACKFILL BLEND	<10.0	<10.0	1260
	· · · · · · · · · · · · · · · · · · ·			
Quality Contr	ol	780	742	960
True Value C	2C	800	800	1000
% Recovery		97.6	92.8	96.0
Relative Perc	cent Difference	3.5	2.1	3.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CIB *Analyses performed on 1:4 w:v aqueous extracts.

Date

H11476

PLEASE NOTE: Llability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

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(9)	915) 673-7001 Fax (915) 673-7020	5) 673-7020	G	(505) 393-2326 Fax (505) 393-2476	38		326	5	Ľ	18	j S	18	12	76					4			5	1,	-uge	1	9				
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Project Manager:	Rov R. Rescare	6		·			1		15	P.O. #	羚	ł								-			مدر بر ال			-			-	(Weisenigen
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Phone # 393 9174		Fax # 397-1471	5		[5	đ.	Address:	1				<u></u>														
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FOR LAB USE ONLY			_	-		z	MATRIX	×		P	PRESERV	ÿ	\leq	SAMPLING	ົ		T									_~	,			المحدة
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affinities or successors arking out of or related to the perfor Sampler Relinquished:	of or related to the performance of serv 10d:	of services howardsr by Cardinal, regardless of whether such claim is based upon my of the above Date: Received By:	700			Y.	ind) d	l.	best	LED O		Ť	Š.	statud resugns or	hone Resu	11	94 7 0	N	à		Add'l Phone #:	2								
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+ Cardinal can	Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.	nges. Piease fa	N X	ritte .	<u> </u>	han	ges	8		- 393	-24	76.																		
4																														

FINAL 30 × 30 × 12 ft RICE OPERATING COMPANY 122 West Taylor Hobbs, NM 88240 Phone: (505) 393-9174 Fax: (505) 397-1471 VOC FIELD TEST REPORT FORM PID METER READING & CALIBRATION SERIAL NO: 104412 MODEL: PGM 761S CK. SERIAL NO: 104490 MODEL: PGM 761S MODEL

UNIT

١.

VENT DG EME UWALL S. COMP'S HUALLOOMP S. Rollion Composite BACK Fill Blend

SECTION

0

MODEL: PGM 7600

JUNCTION

VENT

1.1

0.9

1.2

0.7

0.4

1.2

3.9

PID RESULTS SAMPLE

-3993

5. Comp

S. COMP

NO.

LOTINO: OS

ACCURACY: +/- 2%

SYSTEM

SAMPLE

EAST Wall

West wall

4 Wall Comp

South wall 5. Comp

NORTH Wall 5. COMP

5. Bottom Composit

BACK E:11 Blend

FILL DATE: 11-1-05

I verify that I have calibrated the above instrument in accordance to the manufacure operation manual.

SIGNATURE DONNEL Mitchell

DATE: 8.24.06

SERIAL NO: 110-12383

EXP. DATE: 5-1-67

RANGE

R36 E

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

METER READING ACCURACY 100.3

TOWNSHIP

Tal S

PID RESULTS

HARRISON & 7414 85th Street, Lubbock, Texas 79424-4951 COOPER, INC. P.O. Box 96, Wolfforth, Texas 79382-0096 Drilling & Pump Professionals Ph: (806) 866-4026 Fax: (806) 866-4044 Email: harrisoncooperinc@msn.com Client <u>RICE</u> Project No. EME D-6 10/18/06 Well No. 5.13 Site Date Installed - _ Formation of Completion BARNETT C. HAPPLISON G. Driller Personnel __ Hole Diameter (inches) Well Casing Type Well Casing Diameter (inches) VA Ground Surface Backfill Type BENTON ITE bgs to 45 bgs Centralizers (feet) Seal Type bgs bgs Total Depth bgs (feet) Seal Length bgs 45 (feet) bgs bgs to bgs Slot Opening (inches) Casing Length (feet) bas to bgs Filter Pack Type Open or Slotted Length (feet) bgs to bgs Filter Pack Length (feet) bgs to bgs End Cap Comments 451 BORALG BENTONITE 50/L w/

Regulated by: Texas Dept. of Licensing & Regulation, Water Well Division, P.O. Box 12157, Austin, TX 78711, (800) 803-9202

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