1R-426-153

REPORTS



4-1-08

BD N-32 Vent IR 426-153

.



RICE OPERATING COMPANY JUNCTION BOX DISCLOSURE* REPORT

			I	BOX LOC	ATION						
SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSH	IIP RAN	IGE	COUNTY	NEW BOX	DIMENSI	ONS - FEET]
Blinebry-	N-32 vent	N	32	215	37	'E	Lea	Length	Width	Depth	1
Drinkard (BD)	14-52 Vent			210		E	Lea	move	d 80 ft nor	theast]
LAND TYPE: B	LM ST/	ATE	FEE LANDO	OWNER	6	6.P. Sin	ns	OTHER			
Depth to Groun	dwater	99	feet	NMOC		ASSES	SMENT F	RANKING SO	CORE:	40 *	
Date Started	8/8/20	07	Date Cor	npleted	11/2/:	2007		D Witness		no	
Soil Excavated	566	cubic yar	ds Exc	avation 1	_ength	45	Width	40	Depth	5-12	feet
Soil Disposed	00	cubic yar	ds Off	site Facilit	ty	n/a	a	Location		n/a	
NAL ANALY	TICAL RES	ULTS:	Sample	e Date	10/11/20	07, 10/ 1/2/200	/12/2007, 07	Sample De	pth	12, 90 ft	

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

Sample	Benzene	Toluene	Ethyl Benzene	Total Xylenes	<u>GRO</u>	DRO	Chlorides
Location	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
4-WALL COMP.	<0.001	<0.001	0.011	0.01	<10.0	57.8	688
BOTTOM COMP.		PID = 8.8	(field reading)		<10.0	36	2400
BACKFILL		PID = 20.1			<10.0	517	1090
SOIL BORING grab				2.1933年6	之下 的正要		1296
SOIL BORING grab		22 gan di S					129

General Description of Remedial Action:

General Description of Remedial Action: This junction was moved 80 ft northeast
as part of the pipeline replacement program. After the box was removed from the former junction
site, a backhoe was used to collect soil samples at regular intervals to produce a 30 x 30 x 12 ft
deep excavation. Chloride field tests were conducted on each sample and concentrations did
not relent with depth. Organic vapors were also measured on each sample. Composite samples
were collected from the excavation floor and walls for laboratory analysis. The excavated soil was
blended on site and returned to the excavation up to 6 ft below ground surface. A 6-ft-deep shelf
was excavated extending 5 ft out from the north, south, and west walls and 10 ft out from the east
wall to prepare the surface for a clay barrier. At 6-5 ft BGS, a 1-ft-thick clay barrier was installed.
The remaining fill was used to backfill the 45 x 40 x 5 ft excavation to ground surface and
to contour to the surrounding area. An identification plate was placed on the surface at the
former junction site to mark the presence of the clay below. NMOCD was notified of potential
groundwater impact at this site on 10/18/2007. To further investigate depth of chloride
presence, a soil boring was initiated on 11/2/2007 at 5 ft north of the former junction. The
boring was advanced to 90 ft BGS while soil samples were collected every 5 ft and tested
for chloride concentrations. The 90 ft sample was analyzed at a commercial laboratory for
chloride and confirmed an elevated concentration. The entire borehole was plugged with
bentonite to ground surface. The consultants of Arcadis of Midland, Texas have been
assigned to this project.
* Two inactive private livestock wells are located within 1000 ft southeast of this site.
enclosures: photos, excavation plan view, cross-section, boring log,
lab results, BTEX comparison table, PID screenings, clay test

CHLORIDE FIELD TESTS

LOCATION	DEPTH (ft)	ppm
4-wall comp.	n/a	976
bottom comp.	12	1708
backfill comp.	n/a	894
	15	1042
[20	968
	25	2102
ĺ	30	2960
	35	2449
0.01	40	1368
SOIL BORING	45	1883
5 ft north	50	1393
of former	55	1405
junction 11/2/2007	60	1437
11/2/2007	65	1349
	70	1315
	75	1505
	80	1412
	85	1247
	90	1285

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

SITE SUPERVISOR	Bruce BakerSIGNATURE	any Bruce	Baller COMPANY_RICE Operating Company_
REPORT ASSEMBLED BY	Kristin Fatris Pope	SIGNATURE	Knistin Harris Pope
DATE	12/6/2007	TITLE	Project Scientist

* This site is a "DISCLOSURE." It will be placed on a prioritized list of similar sites for further consideration.

BD N-32 vent

Unit N, Section 32, T21S, R37E







10/15/2007

backfilling 30 x 30 x 12-ft excavation



new pipeline junction and box site 80 ft northeast 3/28/2006



beginning delineation at former junction site 10/4/2007

ation 1/27/2006

old junction box removed prior to delineation



Unit N, Section 32, T21S, R37E

BD N-32 vent

soil boring for vertical delineation 5 ft north of junction 11/2/2007









BD N-32 vent

Excavation Plan View

3



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		and the second sec	
	10		
and the second sec			
			and the second
	<u>n</u>	5	
	S	former jct box	30
	이 이상 방법에 앉는 것이 없는 것이 없다.	4	
	N		
			`
		30 ft	

40 ft

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and the second second

lease road 42 ft south of former junction

45 ft

· · · · · · · · · · · · · · · · · · ·	Logger:		Lara Weinheimer	Client:	Well ID:
	Driller:		Harrison & Cooper Drilling	RICE Operating Compan	<u>у</u>
Drillin	g Method:		Split spoon & Air Rotary	Project Name:	
	Start Date:		11-2-07	BD jct. N-32 vent	
	End Date:		11-2-07	Location:	
Comments: 5 ft north of former junction box site		BD SWD System	SB - 1		
	TD = 90 ft		GW = 99 ft	unit N, Sec. 32, T21S, R3 Lea County, NM	7E
Depth (feet)	chloride field test	PID	Description	Lithology	Soil Bore Construction
· /			12 - 15 ft		
			FINE TO MEDIUM GRAIN SAND		
15	1042	9	yellowish-orange, dry, slight hydrocarbon odor		
	1042		15 - 20 ft	and the second	
			ł	Parties.	
	000	10	VERY FINE TO FINE SAND	and the second second	
20	968	1.2	yellowish-orange, dry, moderate hydrocarbon odor		
			20 - 25 ft		
			VERY FINE TO FINE SAND	and the second second second	
25	2102	1.5	yellowish-orange, dry, slight hydrocarbon odor		
30	2960	0.5			
			25 - 40 ft	and the second	
	· ·		VERY FINE TO FINE SAND		
35	2449	0.6	yellowish-orange, dry, no odor		
	2	0.0	yonomon-orange, dry, no odor		
	1000				
40	1368		40.45.6	and the second states of the s	
		ļ	40 - 45 ft		
			VERY FINE TO FINE SAND		
45	1883		yellowish-orange, slightly damp, no odor		
			45 - 50 ft	and the second	
			VERY FINE TO FINE SAND		
50	1393		reddish-orange, damp, no odor		bentonite
			50 - 55 ft		seal
			VERY FINE TO FINE SAND	100 C	
55	1405		yellowish-orange, slightly damp, no odor		
				and the second second	
60	1437				
				1.000	
65	1349			1. The second	
	1073				
70	1215		60 00 H		
10	1315		60 - 90 ft		
			VERY FINE TO FINE SAND		
			light brown, slightly damp, no odor		
75	1505				
				Lange State	
ſ					
	1412			1	
80					
80				and the second se	
80					
	1247				
80 85	1247				
	1247				
85	·····				
85 90	1285				
85	·····				

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

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

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

OCT 1 7 2007

EXCE OPERATING HOBBS NM

CI*

(mg/Kg)

Receiving Date: 10/12/07 Reporting Date: 10/15/07 Project Number: NOT GIVEN Project Name: BD VENT N-32 Project Location: BD VENT N-32



GRO

 $(C_6 - C_{12})$

(mg/Kg)

Sampling Date: 10/11/07 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: CK Analyzed By: CK/KS

DRO

 $(>C_{12}-C_{28})$

(mg/Kg)

LAB NUMBER SAMPLE ID

ANALYSIS [DATE	10/08/07	10/08/07	10/12/07
H13491-1	5PT. BTTM. COMP. @ 12'	<10.0	36.0	2400
H13491-2	4 WALL COMP. 30X30 FIELD	<10.0	57.8	688
	· .	,		
Quality Cont	rol	485	562	510
True Value C	20	500	500	500
% Recovery		97.0	112	102
Relative Per	cent Difference	13.4	11.9	2.0

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

H13491TCL Rice

PLEASE NOTE: Liability 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, toss of use, or loss of profils 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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Haan Haan Haar

ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: BRUCE BAKER 122 WEST TAYLOR HOBBS, NM 88240 FAX TO: (505) 397-1471 OCT 1 7 2007 RICE OPERATING HOBBS NM

Receiving Date: 10/12/07 Reporting Date: 10/15/07 Project Number: NOT GIVEN Project Name: BD VENT N-32 Project Location: BD VENT N-32 Sampling Date: 10/11/07 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: CK Analyzed By: CK

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DAT	E	10/12/07	10/12/07	10/12/07	10/12/07
H13491-2	4 WALL COMP. 30X30 FIELD	<0.001	<0.001	0.011	0.010
H13491-3	4 WALL LAB COMP.	<0.001	<0.001	<0.001	<0.003
	· · ·				,
Quality Control		0.107	0.098	0.098	0.299
True Value QC		0.100		0.100	0.300
% Recovery		107	97.6	98.1	99.5
Relative Percen	t Difference	2.8	3.8	3.4	3.3

METHOD: EPA SW-846 8021B

H13491b Rice

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2111 Beechwood, Abilene, TX 79603	
1995 (1995 1997) A 13 1996 (1995) 1990	
11118 111 100 1000 1000 1000 1000 1000	ANALYSIS REQUEST
P.O. #:	1
Company:	
Zip:	
171	
City:	
State: Zip:	
Ψ	
Fax #:	
PRESERV.	
ER R	3015
OUNDWA STEWATE IL JDGE HER : ID/BASE: I / COOL	CI- TPH Btex
10-11-01	Sam V
V 10-11-07 1:55	1:50pm VV
V 10-11-07 Z:08 pm	Épan
V 10-11-07 2.11	Composite in Lab
PLEASE NOTE: Ltability and Damages. Caudinal's liability and client's exclusive romedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the annihus and including those for negligible and any other cause whatsoever shall be deemed unless made in whiting and received by Cardinal with 30 days after completion of the an annihus and the state of the client for the cl	e client for the letion of the applicable
, regardees of Westres interruptions, yeas or use, or reas or yound incurroo or cirent, it 1, regardees of Westre's such claim is based upon any of the above stated reasons o	
	Fax Result: U Yes D No Add I Finone #:
Received By:	ma, 1 b bc
C	# CC to Spurvis @ nice supp. com
~	
Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476	
	Glob 393-2326 FAX (Glob) 393-2476 (22) CF3/1001 FAX (Bol) SILE PROJECT <th< td=""></th<>

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RICE OPERATING COMPANY

122 West Tayor Hobbs, NM 88240 PHONE: (505) 393-9174 FAX: (505) 397-1471 PID METER CALIBRATION & FIELD REPORT FORM



MODEL: PGM 7600	
MODEL: PGM 7600	
MODEL: PGM 7600	
MODEL: PGM 7600	

SERIAL NO: 110-013676 SERIAL NO: 110-013744 SERIAL NO: 110-12383 SERIAL NO: 110-012920

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOTNO: 07-3264	EXPIRATION DATE: 1/18/07
FILL DATE: 7/18/07	METER READING ACCURACY: $99, 4$

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
BD	Vent N-32	BD,N	32	215	37E

SAMPLE ID	PID	SAMPLE ID	PID
Spt. Bttm. Comp.	8.8		
	in the second second		
4 WAII Comp.	106		
·			
North WALL Spt. Comp.	170	-	
· · ·		MAR	
South WAll Spt. Comp.	23.5	COPY	
EAST WALL Spt. Comp.	12.6		
West WAll Spt. Comp.	8.3		

I verify that I have calibrated the above insrument in accordance to the namufacture operation manual.

SIGNATUE:

Bruce Baha

DATE: 10 - 11 - 07

30 ft x 30 ft x /2 f. L W D

FUCILITY CALL SUBJECT	LABORATORY TE PETTIGREW & ASS 1110 N. GR HOBBS, NM (505) 393-9	SOCIATES, P. IMES 88240	DE	AASHTO R18 BRA P. HICKS, P.E./L.S.I. JAM M. HICKS, HI, P.E./P.S.
То:	Rice Operating Attn: Hack Conder 122 W. Taylor	Material:	Red Clay	
	Hobbs, NM 88240	Test Method:	ASTM: D 292	2
Project:	General Information Project No. 2007.1007			
Date of Test:	October 17, 2007	Depth:	See Below	
		Depth of Probe	e: 6"	
Test No.	Location	Dry Density % Max	% Moisture	Depth
SG 14	BD Vent N-32, 15' N. and 15' E. of SW Corner	93.4	14.0	Finished Subgrade

NOV 1 5 2007

NOESEA.

Optimum Moisture: 20.8%

Densometer ID: 5071 **PETTIGREW & ASSOCIATES**

BY: Lerica Mart BY: Delup, P.E.

Control Density: 103.3 ASTM: D 698

Required Compaction: 90-95%

Lab No.: 07 9325-9326

Copies To: Rice Op

COPY

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30 × 30 × 12 ft

RICE OPERATING COMPANY

122 West Tayor Hobbs, NM 88240 PHONE: (505) 393-9174 FAX: (505) 397-1471 PID METER CALIBRATION & FIELD REPORT FORM



MODEL: PGM 761S	
MODEL: PGM 7600	1
MODEL: PGM 7600	
MODEL: PGM 7600	1

SERIAL NO: 110-013676 SERIAL NO: 110-013744 SERIAL NO: 110-12383 SERIAL NO: 110-012920

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 07- 3264	EXPIRATION DATE: 1/18/04
FILL DATE: 7/18/07	METER READING ACCURACY: 99.5

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
BD	Vent N-32	\mathcal{N}	32	215	37E

SAMPLE ID	PID	SAMPLE ID	PID
Blended BACKFILL	20.1	े. सम्बद्ध	
		- DV	
		COF	

I verify that I have calibrated the above insrument in accordance to the namufacture operation manual.

SIGNATUE:

Bruce Baha

DATE: 10-12-07



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

PHONE (505) 393-2326 10 TE MARLAND HOBBS, NM 88240 and the second

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: BRUCE BAKER 122 W. TAYLOR HOBBS, NM 88240 FAX TO: (575) 397-1471

OCT 1 8 2007

RICE OPERATING HOBBS NM

Receiving Date: 10/12/07 Reporting Date: 10/16/07 Project Number: NOT GIVEN Project Name: BD VENT N-32 Project Location: BD VENT N-32

Sampling Date: 10/12/07 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: CK/HM

CI*

GRO $(C_6 - C_{12})$

DRO $(>C_{12}-C_{28})$ (mg/kg)(mg/kg) (mg/kg)

LAB NUMBER SAMPLE ID

ANALYSIS DATE	10/15/07	10/15/07	10/15/07
H13502-1 BLENDED BACKFILL	<10.0	517.0	1090
· · ·			
Quality Control	457	589	500
True Value QC	500	500	500
% Recovery	91.4	118	100
Relative Percent Difference	16.5	7.7	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Std. Methods 4500-CI'B *Analysis performed on a 1:4 w:v aqueous extract.

H13502TCL Rice

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ANALYSIS REQUEST	bilene, TX 79603 (325)673-7020 	arland, Hobbs, NM 88240 2111 Beechwood, A -2326 FAX (505) 393-2476 (325) 673-7001 FAX) perativy CC
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST		LABORATORIES

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	dition CHÉCKED BY: Yes (Initials) No	Sample Condition	Delivered By: (Circle One) Sampler : UPS - Bus - Other:
j purvis @ rice swo.com	Helever CC # to	Time: Marshald	
1 to blakerly rice Jw0. com	t t mail	Date: Received By:	Relinquished By:
. □ Yes	Fax Result: REMARKS:	Time: 10-12-07	Bruce Parker
	Phone Result:	Relinguished By: Date: Received By: Date: Received By: Date:	Relinguished By:
, ppicable	rand received by Cardinal within 30 days after completion of the inne, loss of use, or loss of polits incurred by client, its subsidiaries in the board inner any of the board interval and the board interval	anayees. All claims including those for negligence and any other cause whatsoever shall be deemed waved unless made in witting and received by Cerdinal within 30 days after completion of the applicable explose. In no event shall Cardinal be liable for incidential domages, including without introlates, interruptions, loss of use, or loss of profits incurred by clerch, its subsidiaries, and the applicable domages in cardinal within and and the applicable domages. Includential domages, includential within and the applicable domages in cardinal within a state of the applicable domages. In cardinal within a state of the applicable domages in cardinal within a state of the applicable domages in cardinal within a state of the applicable domages. In cardinal within a state of the applicable domages in cardinal within a state of the applicable domages in cardinal domages in cardinal within a state of the applicable domages in cardinal domages. In cardinal within a state of the applicable domages in cardinal within a state of the applicable domages in cardinal domages in cardinal within a state of the applicable domages in cardinal domages. In cardinal within a state of the applicable domages in cardinal domages	analyses. All claims including those for negligence and an service. In no event shall Cardinal to liable for incidential a service of the ser
	tract or tort, shall be limited to the amount paid by the client for th	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be finited to the amount paid by the client for the	PLEASE NOTE: Liability and Damages, Cardinal's liability
			<i>a</i> .(
	V 10-12-07 2:50pm	BACKEIL CI V	ABGOR Blewded
	1	# CO GRO WAS SOIL OIL	H13502-1
-1 - PH	ER : /BASE: COOL	AB OR (NTAINE UNDWA TEWAT	Lab I.D. Sample I.D.
80		RS	
	PRESERV SAMPLING		
57	Fax #:	Barker	
•7	Phone #:	2-32	Project Location: BO VENT.
	State: Zip:	J-32	Project Name: BD VENT 1
	City:	Project Owner:	Project #:
	Address:	Fax #: 397-1471	Phone #: 393 - 9174
	Attn:	State: NM Zip: 88240	city: Hebbs
	Company:	Taylor	Address: 122 West
	P.O. #:		Project Manager: Bruck Baker
ANALYSIS REQUEST	BILL TO	Ativa Co.	Company Name: Rice Operativa
	(325) 673-7001 FAX (325)673-7020	ι .	(505) 393-2326
	2111 Beechwood, Abilene, TX 79603	5	101 East Marian
DF-CUSTODY AND ANALYSIS REQUEST	CHAIN-OF-C	COPA TOBIES	ABDINAL I ABOBATOBIES

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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Revised Junction Box Upgrade Plan (2003)

	(mg/kg)	FIELD COMPOSITE	PID reading	Component PI	Incation
Laboratories		L. Bruce Baker	Sampler:	N-32 vent	Site:
Cardinal	Laboratory:	10/11/2007	Date:	BD	System:

		30 x 30 x 12 ft	from	COMPOSITE	4-WALL	Location	
		WEST wall	EAST wall	SOUTH wall	NORTH wall	Component	
			100	106		(ppm)	PID reading
<0.001		<0.001				Benzene	
<0.001	LAB COMPOSITE	<0.001				Toluene	FIELD COMPOSITE
<0.001	TE (mg/kg)	0.011				Ethyl Benzene	ITE (mg/kg)
<0.003		0.010			1yl Benzene Total Xylenes		

Field PID tests <100 ppm are considered final for BTEX. If PID is >100 ppm, the components of the BTEX composite sample will be collected individually and will be composited under laboratory conditions to prevent excessive volatilization. A 15-box, 30-sample study will be made to compare field-compositing with lab-compositing BTEX samples. Composite components are collected in a skewed 'W' pattern. Revised Junction Box Upgrade Work Plan (July 16, 2003)

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