Item Barcode: **100385600**

New Source Permits

AIR NSR P 055

Air #: 106098866 95251

File Type: Permits

Volume: 001

Date: 1/1/2011 -

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Box Barcode: 578009

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

May 10, 2011

MS JENNIFER SINOPOLI
ENVIRONMENTAL ENGINEER
EOG RESOURCES INC
PO BOX 592929
SAN ANTONIO TX 78259-0196

Permit by Rule Registration Number:	95251
Location/City/County:	From Encinal, west on Hwy 44, 11 miles to Hwy 83, turn right on Hwy 83, go 3 miles to gate on right, Encinal, Webb County
Project Description/Unit:	Cactus Jack Production Facility
Regulated Entity Number:	RN106098866
Customer Reference Number:	CN600564520
New or Existing Site:	Existing
Affected Permit (if applicable):	None
Renewal Date (if applicable):	None

EOG Resources, Inc. has registered the emissions associated with the Cactus Jack Production Facility under Title 30 Texas Administrative Code § 106.352 (effective 9/4/2000). For rule information see:

www.tceq.texas.gov/permitting/air/nav/numerical_index.html

No planned MSS emissions have been represented or reviewed for this registration. The company is also reminded that these facilities may be subject to and must comply with other state and federal air quality requirements. In addition, please be aware that the Commission is considering repeal and amendments to the permit by rule under which your facilities are registered and these changes may affect your authorization. Under the General Requirements for all Permit by Rules, § 106.2 states that particular requirements only apply "where construction is commenced on or after the effective date of the relevant permit by rule." For more information regarding the proposed rule changes, please see the following Web site:

www.tceq.texas.gov/rules/prop.html

All analytical data generated by a mobile or stationary laboratory to support the compliance with an air permit must be obtained from a NELAC (National Environmental Laboratory Accreditation Conference) accredited laboratory. For additional information regarding the laboratory accreditation program, please see the following Web site which includes the accreditation and exemption information:

www.tceq.texas.gov/compliance/compliance_support/qa/env_lab_accreditation.html

This registration is taken under the authority delegated by the Executive Director of the TCEQ. If you have questions, please contact Mr. Monico Banda at (512) 239-1589.

Sincerely,

Anne M. Inman, P.E., Manager
Rule Registrations Section
Air Permits Division

Represented Emissions:

VOC	0.35	tpy
H_2S	0.03	tpy

cc: Air Section Manager, Region 16 - Laredo

Project Number: 163998

TECHNICAL REVIEW: AIR PERMIT BY RULE

Permit No.:	95251	*Company Name:*	EOG Resources, Inc.	*APD Reviewer:*	Mr. Monico Banda
Project No.:	163998	*Unit Name:*	Cactus Jack Production Facility	*PBR No(s).:*	106.352 2000-SEP-04 TO 2011-FEB-27

GENERAL INFORMATION			
Regulated Entity No.:	RN106098866	**Project Type:**	Permit by Rule Application
Customer Reference No.:	CN600564520	**Date Received by TCEQ:**	March 11, 2011
Account No.:		**Date Received by Reviewer:**	April 15, 2011
City/County:	Encinal, Webb County	**Physical Location:**	from encinal travel w on hwy 44 for 11 mi to hwy 83 turn r on hwy 83 and travel 3 mi to gate on right

CONTACT INFORMATION					
Responsible Official/ Primary Contact Name and Title:	Ms. Jennifer Sinopoli Environmental Engineer	**Phone No.:** **Fax No.:**	(210) 403-7882 (210) 403-7883	**Email:**	JENNIFER_SINOPOLI@EOGRESOURCES.COM
Technical Contact/ Consultant Name and Title:	Same as above	**Phone No.:** **Fax No.:**		**Email:**	

GENERAL RULES CHECK	YES	NO	COMMENTS
Is confidential information included in the application?		X	
Are there affected NSR or Title V permits for the project?		X	This is the only air authorization at this site; sitewide emissions are less than Title V major source levels (100 tpy).
Is each PBR > 25/250 tpy?		X	
Are PBR sitewide emissions > 25/250 tpy?		X	
Are there permit limits on using PBRs at the site?		X	
Is PSD or Nonattainment netting required?		X	Sitewide emissions are less than PSD major source levels (250 tpy); Webb County is an attainment county.
Do NSPS, NESHAP, or MACT standards apply to this registration?		X	
Does NOx Cap and Trade apply to this registration?		X	
Is the facility in compliance with all other applicable rules and regulations?	X		

DESCRIBE OVERALL PROCESS AT THE SITE

EOG Resources, Inc. has submitted a Form PI-7 to register the Cactus Jack Production Facility near Encinal, Webb County under §106.352.

DESCRIBE PROJECT AND INVOLVED PROCESS

The Cactus Jack Production Facility is a sour gas site consisting of two 300-bbl water storage tanks, fugitive components, and an unlit flare (used as vent).

TECHNICAL SUMMARY - DESCRIBE HOW THE PROJECT MEETS THE RULES

EOG Resources, Inc.'s Cactus Jack Production Facility qualifies for §106.352.

(1) There are no compressors at this site; an unlit flare will be used as a vent, **registration under §106.492 is <u>not</u> required.**

(2) Total sitewide emissions are less than the limits listed in §106.352(2).

(3) Cactus Jack Production Facility is located at least 1/4 mile from any recreational area or residence or other structure not occupied or used solely by the owner or operator of the facility or the owner of the property upon which the facility is located.

(4) Total emissions of sulfur compounds (as H_2S), excluding SO_2 are less than 4 lb/hr; each vent emitting sulfur compounds will be at least 20 feet.

(5) EOG Resources, Inc has submitted a Form PI-7.

COMMUNICATION LOG

Date	Time	Name/Company	Subject of Communication

TECHNICAL REVIEW: AIR PERMIT BY RULE

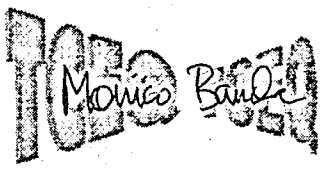
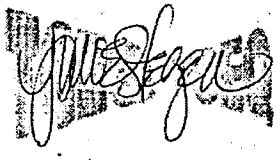
Permit No.:	95251	*Company Name:*	EOG Resources, Inc.	*APD Reviewer:*	Mr. Monico Banda
Project No.:	163998	*Unit Name:*	Cactus Jack Production Facility	*PBR No(s).:*	106.352 2000-SEP-04 TO 2011-FEB-27

ESTIMATED EMISSIONS

EPN / Emission Source	Specific VOC or Other Pollutants	VOC		NOx		CO		PM_{10}		$PM_{2.5}$		SO_2		Other	
		lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy
FUG/Fugitives		0.07	0.32											0.01	0.02
Load/Loading		0.25	0.002												
TK-1/Water Storage Tank		0.003	0.01											0.002	0.006
TK-2/Water Storage Tank		0.003	0.01											0.002	0.006
TOTAL EMISSIONS (TPY):			**0.35**												**0.03**

MAXIMUM OPERATING SCHEDULE:	**Hours/Day**	24	**Days/Week**	7	**Weeks/Year**	52	**Hours/Year**	8,760

SITE REVIEW / DISTANCE LIMIT	Yes	No	Description/Outcome	Date	Reviewed by
Site Review Required?		X		May 10, 2011	Mr. Monico Banda
PBR Distance Limits Met?	X		Cactus Jack Production Facility is located at least 1/4 mile from any recreational area or residence or other structure not occupied or used solely by the owner or operator of the facility or the owner of the property upon which the facility is located.	May 10, 2011	Mr. Monico Banda

	TECHNICAL REVIEWER	PEER REVIEWER	FINAL REVIEWER
SIGNATURE:			 See Hard Copy.
PRINTED NAME:	Mr. Monico Banda	Ms. Julie Steger	Ms. Anne M. Inman, P.E., Manager
DATE:	May 10, 2011	May 10, 2011	

BASIS OF PROJECT POINTS	POINTS
Base Points:	2.0
Project Complexity Description and Points:	
Technical Reviewer Project Points Assessment:	2.0
Final Reviewer Project Points Confirmation:	

05/10/2011 ----------NSR IMS - PROJECT RECORD ----------

PROJECT#: 163998 PERMIT#: 95251 STATUS: PENDING DISP CODE: C
RECEIVED: 03/11/2011 PROJTYPE: INITIAL AUTHTYPE: PBR ISSUED DT: 5/10/11
RENEWAL:
PROJECT ADMIN NAME: CACTUS JACK PRODUCTION FACILITY
PROJECT TECH NAME: CACTUS JACK PRODUCTION FACILITY

2.0
Jul-e

Assigned Team: RULE REG SECTION

STAFF ASSIGNED TO PROJECT:

OBRIEN , BRENDA	- REVIEWR1_2 -	AP INITIAL REVIEW
BANDA , MONICO	- REVIEW ENG -	RR TEAM

CUSTOMER INFORMATION (OWNER/OPERATOR DATA)
ISSUED TO: EOG RESOURCES INC
COMPANY NAME: EOG Resources, Inc.
CUSTOMER REFERENCE NUMBER: **CN600564520**

REGULATED ENTITY/SITE INFORMATION
REGULATED ENTITY NUMBER: **RN106098866** ACCOUNT:
PERMIT NAME: CACTUS JACK PRODUCTION FACILITY

REGULATED ENTITY LOCATION: FROM ENCINAL TRAVEL W ON HWY 44 FOR 11 MI TO HWY 83 TURN R ON HWY 83 AND TRAVEL 3 MI TO GATE ON RIGHT
REGION 16 - LAREDO NEAR CITY: ENCINAL COUNTY: WEBB

CONTACT DATA

CONTACT NAME: MS JENNIFER SINOPOLI CONTACT ROLE: RESPONSIBLE OFFICIAL
JOB TITLE: ENVIRONMENTAL ENGINEER ORGANIZATION: EOG RESOURCES INC
MAILING ADDRESS: PO BOX 592929 , SAN ANTONIO, TX, 78259-0196
PHONE: (210) 403-7882 Ext: 0
FAX: (210) 403-7883 Ext: 0
EMAIL:JENNIFER_SINOPOLI@EOGRESOURCES.COM

FEE:

Reference	Fee Receipt Number	Amount	Fee Receipt Date	Fee Payment Type
1191746413		450.00		CHECK

TRACKING ELEMENTS:

TE Name	Start Date	Complete Date
APIRT RECEIVED PROJECT (DATE)	03/11/2011	
APIRT TRANSFERRED PROJECT TO TECHNICAL STAFF (DATE)	03/15/2011	

CENTRAL REGISTRY UPDATED	03/15/2011	03/15/2011
PROJECT RECEIVED BY ENGINEER (DATE)	04/15/2011	
ENGINEER INITIAL REVIEW COMPLETED (DATE)	04/28/2011	
PEER / MANAGER REVIEW PERIOD	05/10/2011	05/10/2011

PROJECT RULES:

Unit Desc	Rule Desc	Request Type	On Application	Approve
OIL AND GAS PRODUCTION FACILITIES	106.352 2000-SEP-04 TO 2011-FEB-27 -	ADD	Y	APPROVE

PERMIT RULES:

Unit Desc	Rule Desc	Start Date	End Date

PROJECT ATTRIBUTES:

Attributes	Value
PROJECT POINT	
RR DISTRIBUTION	IMPLEMENTED

eog resources

EOG Resources, Inc.
P. O. Box 592929
San Antonio, TX 78259-0196

19100 Ridgewood Parkway
Building 2
San Antonio, TX 78259-1828
(210) 403-7700

March 8, 2011

Air Permits Initial Review Team (APIRT), MC-161
Office of Permitting, Remediation, and Registration
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, TX 78711-3087

AIR PERMITS DIVISION
MAR 11 2011
RECEIVED

APIRT
MAR 11 2011

Re: EOG Resources, Inc.
Cactus Jack Production Facility
Permit by Rule No. 106.352 Registration
Encinal, Webb County
CN600564520

Certified Mail 7010 2780 0000 1391 5703

Attn: APIRT

On behalf of EOG Resources, Inc., I am submitting the enclosed permit by rule registration to authorize a sour gas production facility in Webb County. This facility is already constructed and construction began prior to February 27, 2011. Equipment at the site consists of production separators, two 300-bbl storage tanks, an inoperable flare that serves as a vent, and process fugitives. As documented in the enclosed registration package, these facilities are authorized under 30 TAC §106.352.

EOG Resources, Inc. is aware that PBR §106.352 has been revised effective February 27, 2011. The checklist for PBR §106.352, last revised in October 2004, has been included to show compliance with the permit by rule. This checklist is still appropriate because the Cactus Jack Production Facility is located in Webb County and is only subject to subsection (l) of §106.352.

If you have any questions, please call me at (210) 403-7882.

Sincerely,

Jennifer Sinopoli

Jennifer Sinopoli, E.I.T.
Environmental Engineer

JAS/

Enclosure

cc: Ms. Rose Luna-Pirtle, TCEQ, Region 16, Laredo, w/enclosure

163998

eog resources

Texas Commission on Environmental Quality

Cactus Jack Production Facility

Permit by Rule Registration No. 106.352
Encinal, Webb County
Regulated Entity No. TBA
Customer No. CN600564520

Prepared by: Jennifer Sinopoli, E.I.T.
March 2011

Texas Commission on Environmental Quality
Registration for Permits by Rule (PBR)
Form PI-7 Submission Form

I. REGISTRANT INFORMATION			
A. TCEQ Customer Reference Number:	CN- 600564520	TCEQ Regulated Entity Number:	RN-
New Core Data Form Information: If there is no CN or RN number, a Core Data Form must be completed and submitted with an original signature.			
B. Company or Other Legal Customer Name: EOG Resources, Inc.			
Company Official Contact Name: Jennifer Sinopoli		Title: Environmental Engineer	
Mailing Address: P.O. Box 592929			
City: San Antonio		State: TX	Zip Code: 78529-0196
Phone No.: (210) 403-7882	Fax No.: (210) 403-7883	E-mail Address: Jennifer_Sinopoli@eogresourc	
C. Technical Contact Name: Same as I.B		Title:	
Company:			
Mailing Address:			
City:		State:	Zip Code:
Phone No. :	Fax No.:	E-mail Address:	
D. Facility Location Information - Street Address:			
If "NO," street address, provide written driving directions to the site: (attach description if additional space is needed)			
From Encinal, travel west on Hwy 44 for 11 miles to Hwy 83. Turn right on Hwy 83 and travel 3 miles to gate on right.			
City: Encinal	County: Webb	Zip Code: 78019	
II. FACILITY AND SITE INFORMATION			
A. Name and Type of Facility: Cactus Jack Production Facility		☐ Permanent ☐ Portable	
B. PBR claimed under **30 TAC § 106** *(List all that apply in hard copy, or choose all that apply from the drop down menus in electronic version):*			
§ 106. **352 Oil and Gas Production Facilities**		§ 106.	
§ 106.		§ 106.	
§ 106.		§ 106.	
Are you claiming a **historical standard exemption or PBR?**		☐ YES ☑ NO	
If "YES," enter effective date and Rule Number:			

APIRT
MAR 11 2011

Texas Commission on Environmental Quality
Registration for Permits by Rule (PBR)
Form PI-7 Submission Form

II. FACILITY AND SITE INFORMATION			
C. Is there a previous Standard Exemption or PBR for the facility in this registration? (Attach details regarding changes)			☐ YES ☑ NO
If "YES," enter Registration Number and Rule Number:			
D. Are there any **other facilities** at this **site** which are **authorized by an Air Standard Exemption or PBR?**			☐ YES ☑ NO
If "YES," enter Registration Number and Rule Number:			
E. Are there any **other air preconstruction permits** at this site?			☐ YES ☑ NO
If "YES," enter Permit Numbers:			
Are there any other air preconstruction permits at this site that would be directly associated with this project?			☐ YES ☑ NO
If "YES," enter Permit Numbers:			
F. Is this facility located at a site which is required to obtain a federal operating permit pursuant to 30 TAC Chapter 122?			☐ YES ☑ NO ☐ To be Determined
If the site currently has an existing federal operating permit, enter the permit number:			
Identify the requirements of 30 TAC Chapter 122 that will be triggered if this claim is accepted: (*check all that apply*) ☐ Initial Application for an FOP ☐ Significant Revision for SOP ☐ Minor Revision for SOP ☐ Operational Flexibility/Off Permit Notification for an SOP ☐ Revision for GOP ☐ To be Determined ☑ None			
Identify the type(s) issued and/or FOP application(s) submitted/pending for the site: (*check all that apply*) ☐ SOP ☐ GOP ☐ GOP application/revision application: *(submitted or under APD review)* ☐ SOP application/revision application: *(submitted or under APD review)* ☑ N/A			
G. TCEQ Account Identification Number: *(if known)*			
III. FEE INFORMATION			
See Section VI. for an address to send fee or go to www.2.tceq.state.tx.us/epay to pay online.			
A. Is this registration an update to a previously registered facility and accompanied by a Form APD-CERT solely to establish a federally enforceable emission limit and will not authorize new facilities? *(If "YES," a fee is not required. If "NO," then go to Section III.B.)*			☐ *YES* ☑ *NO*
B. *If "YES," to any of the following three questions, a **$100** fee is required. Otherwise, a **$450** fee is required.*			
Does this business have less than 100 employees or have less than 6 million dollars in annual gross receipts?			☐ YES ☑ NO
Is this registration submitted by a governmental entity with a population of less than 10,000?			☐ YES ☑ NO

Texas Commission on Environmental Quality
Registration for Permits by Rule (PBR)
Form PI-7 Submission Form

III. FEE INFORMATION (continued)			
C. Check/Money Order or Transaction Number *(Payable to TCEQ)*:	119174641	*Was fee Paid online?*	☐ YES ☑ NO
Company name of check: EOG Resources, Inc.		Fee amount:	$$450.00
IV. SELECTED FACILITY REVIEWS ONLY–TECHNICAL INFORMATION ***Note: If claiming one of the following PBRs, complete this section, then skip to Section VI., "Submitting your registration" below:*** ***Animal Feeding Operations § 106.161, Livestock Auction Facilities § 106.162, Saw Mills § 106.223, Grain Handling, Storage and Drying § 106.283, Auto Body Refinishing Facilities § 106.436, Air Curtain Incinerator § 106.496***			
A. Is the applicable PBR checklist attached which shows the facility meets all general and specific requirements of the PBR(s) being claimed?			☐ YES ☐ NO
B. Distance from this facility's emission release point to the nearest property line:			feet
Distance from this facility's emission release point to the nearest off-property structure:			feet
V. TECHNICAL INFORMATION INCLUDING STATE AND FEDERAL REGULATORY REQUIREMENTS ***Registrants must be in compliance with all applicable state and federal regulations and standards to claim a PBR.***			
A. Is Confidential information submitted and properly marked "CONFIDENTIAL" with this registration?			☐ YES ☑ NO
B. Is a process flow diagram or a process description attached?			☑ YES ☐ NO
C. Are emissions data and calculations for this claim attached?			☑ YES ☐ NO
D. Is information attached showing how the **general** requirements **(30 TAC § 106.4)** of the PBR is met for this Registration? **(PBR checklists** may be used, but are optional)			☑ YES ☐ NO
*Note: Please be reminded that if the facilities listed in this registration are subject to the Mass Emissions Cap & Trade program under **30 TAC Chapter 101, Subchapter H, Division 3**, the owner/operator of these facilities must possess NO_x allowances equivalent to the actual NO_x emissions from these facilities.*			
E. Is information attached showing how the **specific PBR** requirements are met for this registration? ***(PBR checklist** may be used, but are optional)*			☑ YES ☐ NO
F. Distance from this facility's emission release point to the nearest property line:			>1320 feet
Distance from this facility's emission release point to the nearest off-property structure:			>1320 feet
Note: In limited cases, a map or drawing of the site and surrounding land use may be requested during the technical review or at the request of the TCEQ Regional Office or local air pollution control program during an investigation.			

Texas Commission on Environmental Quality
Registration for Permits by Rule (PBR)
Form PI-7 Submission Form

VI.	SUBMITTING YOUR REGISTRATION		
A.	**FEES – Pick one of the two options below for payment:**		
	Who	***Where***	***What***
1.	Fee Paid Online	**Go to Website www6.tceq.state.tx.us/epay**	No Additional Action Needed
2.	Fee Mailed to Revenue Section, TCEQ	Regular, Certified, Priority Mail MC 214, P.O. Box 13088 Austin, Texas 78711-3088 Hand Delivery, Overnight Mail MC 214, 12100 Park 35 Circle, Building A, Third Floor, Austin, Texas 78753	Original Money Order or Check Copy of Form PI-7 and Core Data Form
B.	**COPIES OF THE REGISTRATION – Copies must be sent as listed below: Processing delays may occur if copies are not sent as noted.**		
1.	Hard Copy Only Air Permits Initial Review Team (APIRT)	Regular, Certified, Priority Mail MC161, P.O. Box 13087 Austin, Texas 78711-3087 Hand Delivery, Overnight Mail MC 161, 12100 Park 35 Circle, Building C, Third Floor, Austin, Texas 78753 Fax No.: (512) 239-2123 *(do not follow fax with paper copies)*	Originals Form PI-7, Core Data Form, and all attachments
2.	Appropriate local and TCEQ Regional Office Programs	To Find your local or Regional Air Pollution Control Programs go to the TCEQ, APD Website at www.tceq.state.tx.us/nav/permits/air_permits.html or call (512) 239-1250	Copy of Form PI-7, Core Data Form, and all attachments to each office.
3.	Print	(Blank for Print Button)	Prints a Hard Copy of the Form PI-7

TCEQ

TCEQ Core Data Form

TCEQ Use Only

For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission *(If other is checked please describe in space provided)*

☒ New Permit, Registration or Authorization *(Core Data Form should be submitted with the program application)*

☐ Renewal *(Core Data Form should be submitted with the renewal form)* ☐ Other

2. Attachments ☒ Yes ☐ No

Describe Any Attachments: *(ex. Title V Application, Waste Transporter Application, etc.)* Permit by Rule No. 106.35 Registration

3. Customer Reference Number *(if issued)* CN 600564520

Follow this link to search for CN or RN numbers in Central Registry**

4. Regulated Entity Reference Number *(if issued)* RN 0

SECTION II: Customer Information

5. Effective Date for Customer Information Updates (mm/dd/yyyy)

6. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check only one of the following:*

☐ Owner ☐ Operator ☒ Owner & Operator
☐ Occupational Licensee ☐ Responsible Party ☐ Voluntary Cleanup Applicant ☐ Other:

7. General Customer Information

☐ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership
☐ Change in Legal Name (Verifiable with the Texas Secretary of State) ☒ No Change**

If "No Change" and Section I is complete, skip to Section III – Regulated Entity Information.

8. Type of Customer:	☐ Corporation	☐ Individual	☐ Sole Proprietorship- D.B.A
☐ City Government	☐ County Government	☐ Federal Government	☐ State Government
☐ Other Government	☐ General Partnership	☐ Limited Partnership	☐ Other:

9. Customer Legal Name *(If an individual, print last name first: ex: Doe, John)*	*If new Customer, enter previous Customer below*	*End Date:*

10. Mailing Address:

City		**State**		**ZIP**		**ZIP + 4**	

11. Country Mailing Information *(if outside USA)*	**12. E-Mail Address** *(if applicable)*

13. Telephone Number	**14. Extension or Code**	**15. Fax Number** *(if applicable)*
( ) -		( ) -

16. Federal Tax ID *(9 digits)*	**17. TX State Franchise Tax ID** *(11 digits)*	**18. DUNS Number** *(if applicable)*	**19. TX SOS Filing Number** *(if applicable)*

20. Number of Employees ☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher

21. Independently Owned and Operated? ☐ Yes ☐ No

SECTION III: Regulated Entity Information

22. General Regulated Entity Information *(If 'New Regulated Entity" is selected below this form should be accompanied by a permit application)*

☒ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information ☐ No Change** *(See below)*

**If "NO CHANGE" is checked and Section I is complete, skip to Section IV, Preparer Information.

23. Regulated Entity Name *(name of the site where the regulated action is taking place)*

Cactus Jack Production Facility

APIRT
MAR 11 2011

24. Street Address of the Regulated Entity: *(No P.O. Boxes)*								
	City		**State**		**ZIP**		**ZIP + 4**	
25. Mailing Address:	P.O. Box 592929							
	City	San Antonio	**State**	TX	**ZIP**	78529	**ZIP + 4**	0196

26. E-Mail Address:	Jennifer_Sinopoli@eogresources.com

27. Telephone Number	**28. Extension or Code**	**29. Fax Number** *(if applicable)*
(210) 403-7882		(210) 403-7883

30. Primary SIC Code (4 digits)	**31. Secondary SIC Code** (4 digits)	**32. Primary NAICS Code** (5 or 6 digits)	**33. Secondary NAICS Code** (5 or 6 digits)
1311		211111	

34. What is the Primary Business of this entity? *(Please do not repeat the SIC or NAICS description.)*

Gas production

Questions 34 – 37 address geographic location. Please refer to the instructions for applicability.

35. Description to Physical Location:	From Encinal, travel west on Hwy 44 for 11 miles to Hwy 83. Turn right on Hwy 83 and travel 3 miles to gate on right.

36. Nearest City	**County**	**State**	**Nearest ZIP Code**
Encinal	Webb	TX	78019

37. Latitude (N) In Decimal:	28.09190		**38. Longitude (W) In Decimal:**	99.53438	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form or the updates may not be made. If your Program is not listed, check other and write it in. See the Core Data Form instructions for additional guidance.

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Industrial Hazardous Waste	☐ Municipal Solid Waste
☒ New Source Review – Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS	☐ Sludge Tires
☐ Stormwater	☐ Title V – Air	☐ Used Oil	☐ Utilities	☐ Voluntary Cleanup
☐ Waste Water	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:	☐ Other:

SECTION IV: Preparer Information

40. Name:	Jennifer Sinopoli		**41. Title:**	Environmental Engineer
42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**	
(210) 403-7882		(210) 403-7883	Jennifer_Sinopoli@eogresources.com	

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 9 and/or as required for the updates to the ID numbers identified in field 39.

(See the Core Data Form instructions for more information on who should sign this form.)

Company:	EOG Resources, Inc.	**Job Title:**	Environmental Engineer		
Name *(In Print)* :	Jennifer Sinopoli			**Phone:**	(210) 403-7882
Signature:	Jennifer Sinopoli	APIRT MAR 11 2011		**Date:**	3.9.2011

TABLE OF CONTENTS

ATTACHMENT V.B

PROCESS DESCRIPTION

The Cactus Jack Production Facility is a sour gas site. The facility produces no oil or condensate and very little water. Water is stored in one of two 300-bbl storage tanks. The tanks are tied to an unlit flare which serves as a vent for the battery. Fugitive emissions from valves, connectors, etc. are represented by EPN FUG.

ATTACHMENT V.C

EMISSIONS DATA

Fugitives (EPN FUG)

Fugitive emissions were estimated based on the TCEQ technical guidance document for "Equipment Fugitive Leaks" dated October 2000. The Oil and Gas Production Operations equipment leak emission factors approved by the TCEQ were used in the emissions estimations.

Truck Loading of Water (EPN LOAD)

Truck loading emission rates are calculated using the loading loss factor equation from AP-42 Section 5.2, dated January 1995. A saturation factor of 0.6 is used for trucks in dedicated normal service. The maximum hourly emission rate is based on loading 180 bbls in one hour. The maximum annual emission rate is based on a total throughput of 8 bbl water/day. Emissions from the loading of produced water are estimated to be 1% of the emissions from loading crude oil.

Water Storage Tanks (EPNs TK-1, TK-2)

No significant emissions are expected from the water storage tanks; however; in order to be conservative, the produced water tanks were modeled as crude oil (RVP 5) storage tanks in TANKS 4.0.9d. The working and standing emissions from the produced water are estimated to be 1% of the emissions from crude oil. The flash losses were calculated using the Gas to Water Ratio (GWR) from another EOG site in Webb County. The results of laboratory analysis of the water are included in this section. A site specific water flash study was not available and the water at the Union Ranch Lopez Production Facility is considered representative of the water at the Cactus Jack Production Facility.

All emission points are shown in the attached Emission Summary spreadsheet.

EMISSION SUMMARY

Source	EPN	VOC		H_2S		HAP	
		lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
Fugitives	FUG	0.07	0.32	0.01	0.02	0.07	0.30
Loading	LOAD	0.25	1.7E-03	--	--	--	--
Water Storage Tank	TK-1	0.003	0.012	1.5E-03	6.6E-03	5.0E-04	2.2E-03
Water Storage Tank	TK-2	0.003	0.012	1.5E-03	6.6E-03	5.0E-04	2.2E-03
TOTAL		**0.33**	**0.35**	**0.01**	**0.04**	**0.07**	**0.31**

EMISSION ESTIMATE FOR FUGITIVES

EPN:	FUG
Operating schedule (hr/yr):	8760

Fugitive Emission Calculations:

Emission Source		Source Count	Uncontrolled Emission Factor * (lb/hr-source)	Control Factor	Hourly Emissions (lb/hr)	Annual Emissions (ton/yr)
Valves:	gas	12	0.00992	0%	0.119	0.52
	water/oil	8	0.000216	0%	0.00	0.01
Flanges:	gas	0	0.00086	0%	0.00	0.00
	water/oil	0	0.000006	0%	0.00	0.00
Connectors:	gas	30	0.00086	0%	0.03	0.11
	water/oil	20	0.000243	0%	0.00	0.02
Pumps:	water/oil	0	0.000052	0%	0.000	0.00
Other:	gas	2	0.0194	0%	0.04	0.17
	water/oil	2	0.030900	0%	0.06	0.27

Sample Calculation:

Gas Valve Emissions = (12 valves)(0.00992 lb/hr-source)(1 - 0)
= 0.119 lb/hr

* The emission factors are from the TCEQ's 2000 "Equipment Leak Fugitives" for Oil and Gas Production Operations.

FUGITIVE EMISSION RATE SPECIATION

Gas Speciation:

Component	Weight Percent	Hourly Emissions (lb/hr)	Annual Emissions (tons/yr)
Total	99.99	0.18	0.80
Nitrogen	0.050	9.1E-05	4.0E-04
Carbon Dioxide	13.260	0.02	0.11
Hydrogen Sulfide	2.745	5.0E-03	0.02
Methane	76.830	0.14	0.62
Ethane	4.458	0.01	0.04
Propane	1.101	2.0E-03	0.01
n-Butane	0.290	5.3E-04	2.3E-03
Isobutane	0.371	6.8E-04	3.0E-03
n-Pentane	0.093	1.7E-04	7.5E-04
Isopentane	0.171	3.1E-04	1.4E-03
Hexanes +	0.625	1.1E-03	0.01
Total HAP	0.625	1.1E-03	0.01
Total VOC	2.651	4.9E-03	0.02

Gas Speciation from Cactus Jack No.10, Sample Taken 6/14/2004.

Water/ Oil Speciation

Component	Weight Percent	Hourly Emissions (lb/hr)	Annual Emissions (tons/yr)
Total	100	0.07	0.30
Produced Water	100	0.07	0.30
Total HAP	100	0.07	0.30
Total VOC	100	0.07	0.30

EMISSION ESTIMATE FOR WATER LOADING

Truck Hourly Loading Emission Calculations

Using equation L_L = 12.46* SPM/T from AP-42, Chapter 5, Section 5.2-4

S =	0.6	= Saturation Factor
P =	4.7583	= True vapor pressure of liquid loaded (psia)
M =	50	= Molecular Weight of Vapors (lb/lb-mole)
T =	546.6	= Temperature of bulk liquid loaded (in degrees Rankine)
Hourly Loading Rate	7560	= Gallons Loaded per Hour
Control	99	= Water emissions are estimated to be 1% of crude oil
L_L =	0.032540295	= Loading Loss (in pounds of VOC released per 1000 gallons of liquid loaded)
VOC lb/hr =	0.25	

Enter temperature in Fahrenheit °F):	Temperature in Rankine (°R):
86.93	546.6

Enter Barrels of Liquid	Gallons of liquid:
	0

Enter gallons per year	Barrels per day:
	0

Truck Annual Loading Emission Calculations

Using equation L_L = 12.46* SPM/T from AP-42, Chapter 5, Section 5.2-4

S =	0.6	= Saturation Factor
P =	3.9831	= True vapor pressure of liquid loaded (psia)
M =	50	= Molecular Weight of Vapors (lb/lb-mole)
T =	536.76	= Temperature of bulk liquid loaded (in degrees Rankine)
Annual Loading Rate	122640	= Gallons Loaded per Year
Control	99	= Water emissions are estimated to be 1% of crude oil
L_L =	0.027738333	= Loading Loss (in pounds of VOC released per 1000 gallons of liquid loaded)
VOC tpy =	0.0017	

Enter temperature in Fahrenheit °F):	Temperature in Rankine (°R):
77.09	536.76

Enter Barrels of Liquid	Gallons of liquid:
	0

Enter gallons per year	Barrels per day:
	0

EMISSION ESTIMATE FOR STORAGE VESSELS

EPNs: TK-1, TK-2
Description: Produced Water Storage Tanks

EPN	Description	Throughput	Working and Standing Losses			Flash Losses			Total Emission Rate		
			VOC	H_2S	HAP	VOC	H_2S	HAP	VOC	H_2S	HAP
		bbl/day	tpy	tpy	tpy	tpy	tpy	tpy	tpy	tpy	tpy
FL-TANK	Water Tank	4.0	0.006	3.1E-06	3.1E-04	5.7E-03	6.6E-03	1.9E-03	0.012	6.6E-03	2.2E-03
FL-TANK	Water Tank	4.0	0.006	3.1E-06	3.1E-04	5.7E-03	6.6E-03	1.9E-03	0.012	6.6E-03	2.2E-03
TOTAL			**0.01**	**6.3E-06**	**6.3E-04**	**0.01**	**0.01**	**3.7E-03**	**0.02**	**0.01**	**4.4E-03**

Water Tank- Working and Standing Losses

Working & Standing Losses from TANK 4.0.9d	1259.56 lb/yr
Assume water tank VOC emissions are	1% of the working and standing losses of one crude oil tank.
Assume tank HAP emissions are	5% of the VOC emissions.
H_2S emissions are based on	5% of the VOC emissions.

EMISSION ESTIMATE FOR FLASH LOSSES FROM THE WATER STORAGE TANKS

EPNs TK-1 and TK-2

GWR	**1.26**	**scf/bbl**
Molecular Weight	**27.01**	**lb/lb-mol**
Throughput	**4.00**	**bbl/day**
	5.04	**scf/day**
	0.21	**scf/hr**
Total Hourly Flash Loss	**0.0150**	**lb/hr**
Total Annual Flash Loss	**0.0657**	**tpy**

Throughput (scf/day) = (1.26 scf/bbl) * (4 bbl/day) = (5.04 scf/day)
Total Hourly Flash Loss = (0.21 scf/hr) / (379 scf/lbmol) * (27.01 lb/lbmol) = (0.015 llb/hr)

Component	Weight Percent Flash Gas Analysis	Flash Loss [lb/hr]	Flash Loss [ton/yr]
Hydrogen Sulfide*	10.000	1.5E-03	6.6E-03
Carbon Dioxide	48.979	0.007	0.032
Nitrogen	0.000	0.000	0.000
Methane	36.159	0.005	0.024
Ethane	6.162	0.001	0.004
Propane	2.271	0.000	0.001
Isobutane	0.385	0.000	0.000
Normal Butane	0.654	0.000	0.000
2,2 Dimethylpropane	0.000	0.000	0.000
Isopentane	0.235	0.000	0.000
Normal Pentane	0.195	0.000	0.000
2,2 Dimethylbutane	0.019	0.000	0.000
Cyclopentane	0.101	0.000	0.000
2,3 Dimethylbutane	0.026	0.000	0.000
2 Methylpentane	0.115	0.000	0.000
3 Methylpentane	0.080	0.000	0.000
Methylcyclopentane	0.284	0.000	0.000
Cyclohexane	0.380	0.000	0.000
2 Methylhexane	0.045	0.000	0.000
3 Methylhexane	0.048	0.000	0.000
Other C7s	0.147	0.000	0.000
Normal Heptane	0.093	0.000	0.000
Methylcyclohexane	0.367	0.000	0.000
Other C8s	0.188	0.000	0.000
Normal Octane	0.038	0.000	0.000
Other C9s	0.084	0.000	0.000
Normal Nonane	0.014	0.000	0.000
Other C10s and +	0.076	0.000	0.000
Normal Decane	0.005	0.000	0.000
Benzene	1.270	0.000	0.001
Toluene	1.208	0.000	0.001
Ethylbenzene	0.024	0.000	0.000
Xylenes	0.188	0.000	0.000
Normal Hexane	0.160	0.000	0.000
TOTAL	**110.00**	**0.015**	**0.0657**
TOTAL VOC	**8.70**	**0.001305**	**0.005716**
TOTAL HAPs	**2.85**	**0.000428**	**0.00187**

Flash gas speciation from sample dated 3/3/2010 from Union Ranch Lopez No. 1-H Gas Evolved from Water Flashed. Hydrogen Sulfide content has been increased to be conservative.

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Indentification and Physical Characteristics

Identification

User Identification:	300-bbl Water Storage Tanks
City:	Webb County
State:	Texas
Company:	EOG Resources, Inc.
Type of Tank:	Vertical Fixed Roof Tank
Description:	Cactus Jack Production Facility 4 bbl water/day

Tank Dimensions

Shell Height (ft):	15.00
Diameter (ft):	12.00
Liquid Height (ft) :	14.80
Avg. Liquid Height (ft):	3.00
Volume (gallons):	12,600.00
Turnovers:	4.87
Net Throughput(gal/yr):	61,320.00
Is Tank Heated (y/n):	N

Paint Characteristics

Shell Color/Shade:	Gray/Light
Shell Condition	Good
Roof Color/Shade:	Gray/Light
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.00
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	-0.03
Pressure Settings (psig)	0.03

Meterological Data used in Emissions Calculations: Del Rio, Texas (Avg Atmospheric Pressure = 13.82 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

300-bbl Water Storage Tanks - Vertical Fixed Roof Tank
Webb County, Texas

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F) Avg.	Min.	Max.	Liquid Bulk Temp (deg F)	Vapor Pressure (psia) Avg.	Min.	Max.	Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
Crude oil (RVP 5)	All	77.09	67.26	86.93	71.62	3.9831	3.3122	4.7583	50.0000			207.00	Option 4: RVP=5

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

300-bbl Water Storage Tanks - Vertical Fixed Roof Tank
Webb County, Texas

Annual Emission Calcaulations	
Standing Losses (lb):	1,041.4796
Vapor Space Volume (cu ft):	1,371.3052
Vapor Density (lb/cu ft):	0.0346
Vapor Space Expansion Factor:	0.2142
Vented Vapor Saturation Factor:	0.2809
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	1,371.3052
Tank Diameter (ft):	12.0000
Vapor Space Outage (ft):	12.1250
Tank Shell Height (ft):	15.0000
Average Liquid Height (ft):	3.0000
Roof Outage (ft):	0.1250
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1250
Roof Height (ft):	0.0000
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	6.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0346
Vapor Molecular Weight (lb/lb-mole):	50.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	3.9831
Daily Avg. Liquid Surface Temp. (deg. R):	536.7649
Daily Average Ambient Temp. (deg. F):	69.3750
Ideal Gas Constant R (psia cuft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	531.2850
Tank Paint Solar Absorptance (Shell):	0.5400
Tank Paint Solar Absorptance (Roof):	0.5400
Daily Total Solar Insulation Factor (Btu/sqft day):	1,515.5833
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.2142
Daily Vapor Temperature Range (deg. R):	39.3436
Daily Vapor Pressure Range (psia):	1.4460
Breather Vent Press. Setting Range(psia):	0.0600
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	3.9831
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	3.3122
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	4.7583
Daily Avg. Liquid Surface Temp. (deg R):	536.7649
Daily Min. Liquid Surface Temp. (deg R):	526.9290
Daily Max. Liquid Surface Temp. (deg R):	546.6008
Daily Ambient Temp. Range (deg. R):	22.8167
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.2809
Vapor Pressure at Daily Average Liquid: Surface Temperature (psia):	3.9831

Vapor Space Outage (ft):	12.1250
Working Losses (lb):	218.0774
Vapor Molecular Weight (lb/lb-mole):	50.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	3.9831
Annual Net Throughput (gal/yr.):	61,320.0000
Annual Turnovers:	4.8667
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	12,600.0000
Maximum Liquid Height (ft):	14.8000
Tank Diameter (ft):	12.0000
Working Loss Product Factor:	0.7500
Total Losses (lb):	1,259.5570

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

300-bbl Water Storage Tanks - Vertical Fixed Roof Tank
Webb County, Texas

	Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions
Crude oil (RVP 5)	218.08	1,041.48	1,259.56

FESCO, Ltd.
1100 Fesco Avenue - Alice, Texas 78332

June 22, 2004

For: EOG Resources, Inc.
539 N. Carancahua, Suite 1000
Corpus Christi, Texas 78401-2437

Sample: Cactus Jack No. 10
Separator Gas @ 741 psig & 90 °F

Station: N/A

Date Sampled: 6/14/2004 at 09:00 hours

Sampled by:

CHROMATOGRAPH ANALYSIS

COMPONENT	MOL%	GPM
Hydrogen Sulfide*	1.500	
Nitrogen	0.033	
Carbon Dioxide	5.613	
Methane	89.213	
Ethane	2.761	0.734
Propane	0.465	0.127
Isobutane	0.119	0.039
n-Butane	0.093	0.029
Isopentane	0.044	0.016
n-Pentane	0.024	0.009
Hexanes Plus	0.135	0.059
Totals:	**100.000**	**1.013**

Computed Real Properties:

Specific Gravity	0.645 (Air=1.000)
Compressibility(Z)	0.9976
Gross Heating Value at 14.650 psia & 60 °F	
Dry Basis	987 BTU/CF
Saturated Basis	971 BTU/CF

*H2S Test on Location by Sensidyne Method Yielded 15000.1 PPM,
Which is Equivalent To 1.500 Mol% or 943.4 Gr/100 CF

Base Conditions: 14.650 psia & 60 °F

Certified: FESCO, Ltd. - Alice, Texas

Leo Soliz 361-661-7015

Job Number: 43289.001
Analyst ID: JG

Cyl Number: A-447

CALCULATION OF WEIGHT COMPOSITION FROM MOLAR COMPOSITION

Cactus Jack No. 10 Separator Gas Sample

Component Name	MW	Mole %	MW x Mole%	Weight %	VOC Wt%	VOC Mole%	HAP Wt%	HAP Mole%
Methane	16.04	89.213	1430.98	76.83	-	-	-	-
Ethane	30.07	2.761	83.02	4.46	-	-	-	-
Propane	44.10	0.465	20.51	1.10	1.10	0.47	-	-
Isobutane	58.12	0.119	6.92	0.37	0.37	0.12	-	-
n-Butane	58.12	0.093	5.41	0.29	0.29	0.09	-	-
Isopentane	72.15	0.044	3.17	0.17	0.17	0.04	-	-
n-Pentane	72.15	0.024	1.73	0.09	0.09	0.02	-	-
Hexane	86.18	0.135	11.63	0.62	0.62	0.14	0.62	0.14
Nitrogen	28.01	0.033	0.92	0.05	-	-	-	-
Carbon Dioxide	44.01	5.613	247.03	13.26	-	-	-	-
Hydrogen Sulfide	34.08	1.500	51.12	2.75	-	-	-	-
Totals		100.000	1862.44	99.99	2.65	0.88	0.62	0.14

March 24, 2010

FESCO, Ltd.
1100 Fesco Avenue - Alice, Texas 78332

For: EOG Resources, Inc.
539 N. Carancahua, Suite 900
Corpus Christi, Texas 78478-0028

Date Sampled: 03/03/2010

Date Analyzed: 03/09/2010

Job Number: J01962W

Sample Union Ranch Lopez No. 1-H

FLASH LIBERATION OF SEPARATOR WATER		
	Separator Water	**Stock Tank**
Pressure, psig	50	0
Temperature, °F	75	70
Gas Water Ratio (1)	-----	1.26
Gas Specific Gravity (2)	------	0.936
Separator Volume Factor (3)	1.000	1.000

(1) - Scf of flashed vapor per barrel of stock tank water
(2) - Air = 1.000
(3) - Separator volume / Stock tank volume
Analyst: J. G.

Base Conditions: 14.65 PSI & 60 °F

Certified: FESCO, Ltd. - Alice, Texas

David Dannhaus 361-661-7015

March 10, 2010

FESCO, Ltd.
1100 Fesco Ave. - Alice, Texas 78332

For: EOG Resources, Inc.
539 N. Carancahua, Suite 900
Corpus Christi, Texas 78478-0028

Sample: Union Ranch Lopez No. 1-H
Gas Evolved from Water Flashed
From 76 psig & 74 °F to 0 psig & 70 °F

Date Sampled: 03/03/2010 Job Number: 01962.002

CHROMATOGRAPH EXTENDED ANALYSIS - SUMMATION REPORT

COMPONENT	MOL%	GPM
Hydrogen Sulfide*	< 0.001	
Nitrogen	0.000	
Carbon Dioxide	30.055	
Methane	60.870	
Ethane	5.534	1.472
Propane	1.391	0.381
Isobutane	0.179	0.058
n-Butane	0.304	0.095
2-2 Dimethylpropane	0.000	0.000
Isopentane	0.088	0.032
n-Pentane	0.073	0.026
Hexanes	0.164	0.067
Heptanes Plus	1.342	0.459
Totals	100.000	2.591

Computed Real Characteristics Of Heptanes Plus:

Specific Gravity	3.110	(Air=1)
Molecular Weight	89.72	
Gross Heating Value	4430	BTU/CF

Computed Real Characteristics Of Total Sample:

Specific Gravity	0.936	(Air=1)
Compressibility (Z)	0.9960	
Molecular Weight	27.01	
Gross Heating Value		
Dry Basis	838	BTU/CF
Saturated Basis	824	BTU/CF

*Hydrogen Sulfide tested in laboratory by Stained Tube Method (GPA 2377)
Results: 0.031 Gr/100 CF, 0.5 PPMV or 0.000 Mol %

Base Conditions: 14.650 PSI & 60 Deg F

Certified: FESCO, Ltd. - Alice, Texas

Analyst: RG
Processor: MRF
Cylinder ID: DL-9

David Dannhaus 361-661-7015

FESCO, Ltd.

Job Number: 01962.002

CHROMATOGRAPH EXTENDED ANALYSIS
TOTAL REPORT

COMPONENT	MOL %	GPM	WT %
Hydrogen Sulfide*	< 0.001		< 0.001
Nitrogen	0.000		0.000
Carbon Dioxide	30.055		48.979
Methane	60.870		36.159
Ethane	5.534	1.472	6.162
Propane	1.391	0.381	2.271
Isobutane	0.179	0.058	0.385
n-Butane	0.304	0.095	0.654
2,2 Dimethylpropane	0.000	0.000	0.000
Isopentane	0.088	0.032	0.235
n-Pentane	0.073	0.026	0.195
2,2 Dimethylbutane	0.006	0.002	0.019
Cyclopentane	0.039	0.016	0.101
2,3 Dimethylbutane	0.008	0.003	0.026
2 Methylpentane	0.036	0.015	0.115
3 Methylpentane	0.025	0.010	0.080
n-Hexane	0.050	0.020	0.160
Methylcyclopentane	0.091	0.031	0.284
Benzene	0.439	0.122	1.270
Cyclohexane	0.122	0.041	0.380
2-Methylhexane	0.012	0.006	0.045
3-Methylhexane	0.013	0.006	0.048
2,2,4 Trimethylpentane	0.000	0.000	0.000
Other C7's	0.040	0.017	0.147
n-Heptane	0.025	0.011	0.093
Methylcyclohexane	0.101	0.040	0.367
Toluene	0.354	0.118	1.208
Other C8's	0.046	0.021	0.188
n-Octane	0.009	0.005	0.038
Ethylbenzene	0.006	0.002	0.024
M & P Xylenes	0.040	0.015	0.157
O-Xylene	0.008	0.003	0.031
Other C9's	0.018	0.009	0.084
n-Nonane	0.003	0.002	0.014
Other C10's	0.008	0.005	0.042
n-Decane	0.001	0.001	0.005
Undecanes (11)	0.006	0.004	0.034
Totals	100.000	2.591	100.000

Computed Real Characteristics Of Total Sample:

Specific Gravity	0.936	(Air=1)
Compressibility (Z)	0.9960	
Molecular Weight	27.01	

Gross Heating Value

Dry Basis	838	BTU/CF
Saturated Basis	824	BTU/CF

Texas Commission on Environmental Quality
Permit by Rule Applicability Checklist
Title 30 Texas Administrative Code § 106.4

The following checklist was developed by the Texas Commission on Environmental Quality (TCEQ), **Air Permits Division**, to assist applicants in determining whether or not a facility meets all of the applicable requirements. Before claiming a specific Permit by Rule (PBR), a facility must first meet all of the requirements of **Title 30 Texas Administrative Code § 106.4** (30 TAC § 106.4), "Requirements for Permitting by Rule." Only then can the applicant proceed with addressing requirements of the specific Permit by Rule being claimed.

The use of this checklist is not mandatory; however, it is the responsibility of each applicant to show how a facility being claimed under a PBR meets the general requirements of 30 TAC § 106.4 and also the specific requirements of the PBR being claimed. If all PBR requirements cannot be met, a facility will not be allowed to operate under the PBR and an application for a construction permit may be required under 30 TAC § 116.110(a).

Registration of a facility under a PBR can be performed by completing **Form PI-7** (Registration for Permits by Rule) or **Form PI-7-CERT** (Certification and Registration for Permits by Rule). The appropriate checklist should accompany the registration form. Check the most appropriate answer and include any additional information in the spaces provided. If additional space is needed, please include an extra page and reference the question number. The PBR forms, tables, checklists and guidance documents are available from the TCEQ, Air Permits Division Web site at: **www.tceq.state.tx.us/permitting/air/nav/air_pbr.html**.

1. 30 TAC § 106.4(a)(1) & (4): Emission limits

List emissions in tpy for **each** facility (add additional pages or table if needed): See table on pg. 4

SO_2 = _____ PM_{10} = _____ VOC = _____ NO_x = _____ CO = _____ Other H2S _____ = _____
SO_2 = _____ PM_{10} = _____ VOC = _____ NO_x = _____ CO = _____ Other _____ = _____
SO_2 = _____ PM_{10} = _____ VOC = _____ NO_x = _____ CO = _____ Other _____ = _____

Total 0.0 0.0 0.35 0.0 0.0 0.04

- Are the SO_2, PM_{10}, VOC, or other air contaminant emissions claimed for **each** facility in this PBR submittal less than 25 tpy? ☑ YES ☐ NO
- Are the NO_x and CO emissions claimed for each facility in this PBR submittal less than 250 tpy? ☑ YES ☐ NO

*If the answer to both is "Yes," continue to the question below. If the answer to either question is "No," a **PBR cannot be claimed.***

Has any facility at the property had public notice and opportunity for comment under 30 TAC Section 116 for a regular permit or permit renewal? (This does not include public notice for voluntary emission reduction permits, grandfathered existing facility permits, or federal operating permits.) ☐ YES ☑ NO

If "Yes," skip to Section 2. If "No," continue to the questions below.

If the site has had no public notice, please answer the following:
- Are the SO_2, PM_{10}, VOC, or other emissions claimed for **all** facilities in this PBR submittal less than 25 tpy? ☑ YES ☐ NO
- Are the NO_x and CO emissions claimed for all facilities in this PBR submittal less than 250 tpy? ☑ YES ☐ NO

If the answer to both questions is "Yes," continue to Section 2.
*If the answer to either question is "No," **a PBR cannot be claimed.** A permit will be required under Chapter 116.*

2. 30 TAC § 106.4(a)(2): Nonattainment check

Are the facilities to be claimed under this PBR located in a designated ozone nonattainment county? ☐ YES ☑ NO
If "Yes," please indicate which county by checking the appropriate box to the right.
(Marginal) - Hardin, Jefferson, and Orange counties *(BPA)* ☐ BPA
(Moderate) - Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery, and Waller counties *(HGA)* ☐ HGA
(Moderate) - Collin, Dallas, Denton, Ellis, Johnson, Kaufman, Parker, Rockwall, and Tarrant counties *(DFW)* ☐ DFW

If "Yes," to any of the above, continue to the next question. If "No," continue to Section 3.

Does this project trigger a nonattainment review? To determine the answer, review the information below: • Is the project's potential to emit (PTE) for emissions of VOC or NO_x increasing by 100 tpy or more? *PTE is the maximum capacity of a stationary source to emit any air pollutant under its worst-case physical and operational design unless limited by a permit, rule, or made federally enforceable by a certification.* • Is the site an existing major nonattainment site and are the emissions of VOC or NO_x increasing by 40 tpy or more? If needed, attach contemporaneous netting calculations per nonattainment guidance. Additional information can be found at: **www.tceq.state.tx.us/permitting/air/forms/newsourcereview/tables/nsr_table8.html** and **www.tceq.state.tx.us/permitting/air/nav/air_docs_newsource.html** *If "Yes," to any of the above, the project is a major source or a major modification and* ***a PBR may not be used.*** *A Nonattainment Permit review must be completed to authorize this project. If "No," continue to Section 3.*	☐YES ☐NO ☐YES ☐NO
3. 30 TAC § 106.4(a)(3): Prevention of Significant Deterioration (PSD) check	
Does this project trigger a review under PSD rules? To determine the answer, review the information below: • Are emissions of any regulated criteria pollutant increasing by 100 tpy of any criteria pollutant at a named source? • Are emissions of any criteria pollutant increasing by 250 tpy of any criteria pollutant at an unnamed source? • Are emissions increasing above significance levels at an existing major site? PSD information can be found at: **www.tceq.state.tx.us/permitting/air/forms/newsourcereview/tables/nsr_table9.html** and **www.tceq.state.tx.us/permitting/air/nav/air_docs_newsource.html** *If "Yes," to any of the above,* ***a PBR may not be used.*** *A PSD Permit review must be completed to authorize the project. If "No," continue to Section 4.*	☐YES ☑NO ☐YES ☑NO ☐YES ☑NO
4. 30 TAC § 106.4(a)(6): Federal Requirements	
• Will all facilities under this PBR meet applicable requirements of Title 40 Code of Federal Regulations (40 CFR) Part 60, New Source Performance Standards (NSPS)? If "Yes," which Subparts are applicable?: _____ • Will all facilities under this PBR meet applicable requirements of 40 CFR Part 63, Hazardous Air Pollutants Maximum Achievable Control Technology (MACT) standards? If "Yes," which Subparts are applicable?: _____ • Will all facilities under this PBR meet applicable requirements of 40 CFR Part 61, National Emissions Standards for Hazardous Air Pollutants (NESHAPs)? If "Yes," which Subparts are applicable?: _____ *If "Yes" to any of the above, please attach a discussion of how the facilities will meet any applicable standards.*	☐YES ☐NO ☑N/A ☐YES ☐NO ☑N/A ☐YES ☐NO ☑N/A
5. 30 TAC § 106.4(a)(7): PBR prohibition check	
Are there any air permits at the site containing conditions which prohibit or restrict the use of PBRs? *If "Yes," PBRs may not be used or their use must meet the restrictions of the permit. A new permit or permit amendment may be required.* ***List permit number(s):*** _____ *If "No," continue to Section 6.*	☐YES ☑NO

6. 30 TAC § 106.4(a)(8): NO_x Cap and Trade

- Is the facility located in Harris, Brazoria, Chambers, Fort Bend, Galveston, Liberty, Montgomery, or Waller County? ☐YES ☑NO

If "Yes," answer the question below. If "No," continue to Section 7.

- Will the proposed facility or group of facilities obtain required allowances for NO_x if they are subject to 30 TAC Chapter 101, Subchapter H, Division 3 (relating to the Mass Emissions Cap and Trade Program)? ☐YES ☐NO

7. Highly Reactive Volatile Organic Compounds (HRVOC) check

- Is the facility located in Harris County? *If "Yes," answer the next question. If "No," skip to the box below.* ☐YES ☑NO
- Will the project be constructed after June 1, 2006? *If "Yes," answer the next question. If "No," skip to the box below.* ☐YES ☐NO
- Will one or more of the following HRVOC be emitted as a part of this project? ☐YES ☐NO

If "Yes," complete the information below:	lb/hr	tpy
▸ 1,3-butadiene		
▸ all isomers of butene (e.g., isobutene [2-methylpropene or isobutylene])		
▸ alpha-butylene (ethylethylene)		
▸ beta-butylene (dimethylethylene, including both cis- and trans-isomers)		
▸ ethylene		
▸ propylene		

- Is the facility located in Brazoria, Chambers, Fort Bend, Galveston, Liberty, Montgomery, or Waller County? ☐YES ☑NO

If "Yes," answer the next question. If "No," the checklist is complete.

- Will the project be constructed after June 1, 2006? ☐YES ☐NO

If "Yes," answer the next question. If "No," the checklist is complete.

- Will one or more of the following HRVOC be emitted as a part of this project? ☐YES ☐NO

If "Yes," complete the information below:	lb/hr	tpy
▸ ethylene		
▸ propylene		

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2011 Month to Month EOG Eagleford Contractor Safety Information

EOG South Texas Contact: Christy Gonzalez phone: 210-471-0984
APPLIES ONLY TO EOG Eagleford TEXAS AREA

REPORTS DUE NO LATER THAN 15TH OF EACH MONTH

Company Name: Roywell Services, Inc
PLEASE INDICATE COMPANY NAME ABOVE

	All Hours Worked	TOTAL OSHA REC.	LTI/DAFW Cases	RWC/ Restricted Duty Cases	MTO/ Illness Cases
Jan-11	120.00				
Feb-11	97.00				
Mar-11					
Apr-11					
May-11					
Jun-11					
Jul-11					
		0			
Aug-11					
		0			
Sep-11					
		0			
		0			
Oct-11					
		0			
		0			
Nov-11					
		0			
		0			
Dec-11					
Totals (auto)	97.00	0	0	0	0

***NOTE: November information is estimated and subject to change**

1. DAFW= Days Away From Work Cases (Lost Workdays)
2. Restricted Duty- Injuries involving restrictions on normal job duties

Incident Details:

Rig Number	Date	Incident Type	Name of Injured Person

Title 30 Texas Administrative Code § 106.352
Permit By Rule (PBR) Checklist
Oil and Gas Production Facilities

The following checklist is designed to help you confirm that you meet Title 30 Texas Administrative Code § 106.352 (30 TAC § 106.352) requirements. If you do not meet all the requirements, you may alter the project design or operation in such a way that all the requirements of the PBR are met or you may obtain a construction permit. The PBR forms, tables, checklists and guidance documents are available from the Texas Commission on Environmental Quality (TCEQ), Air Permits Division Web site at www.tceq.state.tx.us/nav/permits/air_permits.html.

CHECK THE MOST APPROPRIATE ANSWER		
	Check the type of facilities covered by this registration(check all that are applicable): ☑ oil or gas production facility ☐ carbon dioxide separation facility ☐ oil or gas pipeline facility	
	The facilities at the site include (check all that apply): ☑ one or more tanks ☑ separators ☐ dehydration units ☐ free water knockouts ☐ gunbarrels ☐ heater treaters ☐ natural gas liquids recovery units ☐ gas sweetening and other gas conditioning facilities ☐ sulfur recovery units	☐ YES ☐ NO
	Will gas sweetening, sulfur recovery, or other gas conditioning facilities only condition gas that contains less than two (2) long tons per day of sulfur compounds as sulfur?	☐ YES ☐ NO N/A
1	Do all compressors and flares fully meet the requirements of 30 TAC § 106.512 and 30 TAC § 106.492, respectively? Attach data showing how the exemptions are met. Checklists are available.	☐ YES ☐ NO N/A
2	Are total emissions from all facilities, including fugitives and loading emissions, less than 25 tpy SO_2, VOC, or 250 tpy of CO or NO_x?	☑ YES ☐ NO
	Have you attached calculations and other data, such as a gas analysis, showing that the emissions limits of the general rule are met?	☑ YES ☐ NO
3	If the facility handles sour gas, is it located at least 1/4 mile from any recreational area, residence, or other structure not occupied or used solely by the owner or operator of the facility or the owner of the property upon which the facility is located? Attach a scaled map.	☑ YES ☐ NO
4	Are total emissions of sulfur compounds, excluding sulfur oxides, less than 4.0 pounds per hour? Attach calculations.	☑ YES ☐ NO
	Does the height of each vent emitting sulfur compounds meet or exceed the minimum vent height stated in 30 TAC § 106.352? List stack height: 20 ft	☑ YES ☐ NO

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