HIP - 112

GENERAL CORRESPONDENCE

YEAR(S): 2008-2009

HESS CORPORATION
500 Dallas Street
Houston, TX 77002

October 2, 2008

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Mr. Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: FEF – WATER DISCHARGE PERMIT
HIP-112 PUBLIC NOTICE AFFIDAVITS
PIPELINE HYDROSTATIC TEST
CO2 TRANSMISSION LINE
WEST BRAVO DOME

Dear Mr. Jones:

In compliance with NMAC 20.6.2.3108, Hess Corporation is submitting proof of public notice for the Hydrostatic Discharge Permit HIP-112. Enclosed is:

1. An affidavit of mailings to underlying and adjacent landowners,
2. Proof of publication in the Union County Leader, and
3. An affidavit of the posting of two (2) signs at the project site and the Mosquero Post Office including pictures of the signs.

Mailings to adjacent and underlying landowners
Notification letters with a copy of the public notice was sent via certified mail, return receipt to underlying and adjacent landowners on September 24, 2008 to:

Mr. Joe Culbertson – W. O. Culbertson & Son's, Inc. (Exhibit A)
Ms. Mary Libby Campbell – Yesterday's Valley Ranch, Inc. (Exhibit B)
Mr. John Bemis – New Mexico State Land Office (Exhibit C)

The certified mail receipts are included with each Exhibit along with copies of the letters sent.

Proof of Publication in the Union County Leader
Attached are copies of pages from the newspaper and an affidavit from the Union County Leader.

An affidavit of the posting of two (2) signs at the project site and the Mosquero Post Office
Attached is an affidavit from Daniel Holcomb addressing posting of the signs. Pictures of the signs are attached.

Mr. Brad Jones
New Mexico Oil Conservation Division
October 2, 2008

If you should have any questions or require additional information, please feel free to contact me at (713) 609-4204.

Sincerely,

Michael D. Ford

Michael D. Ford
Environmental Advisor

MDF:WBDPUBLICNOTICEFILINGSLT.DOC

Attachments

AFFIDAVIT OF MAILINGS

STATE OF TEXAS)
)ss
COUNTY OF HARRIS)

BEFORE ME, the undersigned authority, personally appeared JAMES HUGHART ("Affiant") on the date written below, who having been first duly sworn according to law, deposes and says:

1. I am over the age of eighteen and competent to testify concerning the matters stated herein based on my own personal knowledge, education and experience.

2. I am a LAND MANAGER employed by Hess Corporation, a Delaware corporation, in its Exploration and Production Americas Technical Group.

3. I have personal knowledge of Hess Corporation's West Bravo Dome Carbon Dioxide Transmission Line Project.

4. As part of the permitting process for Hess Corporation's West Bravo Dome Carbon Dioxide Transmission Line, Hess Corporation filed an application for an Individual Hydrostatic Test Discharge Permit ("IHTD Permit") with the New Mexico Energy, Minerals and Natural Resources Department – Oil Conservation Division. As part of the public notice requirement for the IHTD Permit, on Sept. 24th, 2008, I personally mailed notices to all the property owners as listed on Exhibits A thru C, which said exhibits are attached hereto and made a part hereof.

FURTHER AFFIANT SAYETH NAUGHT.

James A. Hughart
James Hughart

The foregoing was sworn to before me by James S. Hughart on this 24th day of September, 2008.

My Commission Expires: November 21, 2011
(Seal)

Helen M. Brown
Notary Public

HELEN M. BROWN
MY COMMISSION EXPIRES
November 21, 2011

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

7099 3400 0016 8787 3741

J. Hughart

Postage $
Certified Fee
Return Receipt Fee (Endorsement Required)
Restricted Delivery Fee (Endorsement Required)
Postmark Here

Joe Culbertson
W.O. Culbertson & Son's, Inc.
1101 Liberal St.
Dalhart, TX 79002

PS Form 3800, February 2000 See Reverse for Instructions

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

7099 3400 0016 8787 3758

J. Hughart

Postage $
Certified Fee
Return Receipt Fee (Endorsement Required)
Restricted Delivery Fee (Endorsement Required)
Postmark Here

Mary Libby Campbell
Yesterday's Valley Ranch, Inc.
250 Bravo Dome Hwy.
Bueyeros, New Mexico 88415

PS Form 3800, February 2000 See Reverse for Instructions

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

7099 3400 0016 8787 3734

J. Hughart

Postage $
Certified Fee
Return Receipt Fee (Endorsement Required)
Restricted Delivery Fee (Endorsement Required)
Postmark Here

John Bemis
New Mexico State Land Office
P.O. Box 1148
310 Old Santa Fe Trail
Santa Fe, New Mexico 87501

PS Form 3800, February 2000 See Reverse for Instructions

HESS CORPORATION
500 Dallas Street
Houston, TX 77002

James S. Hughart
Land Manager
(713) 609-5517
FAX: (713) 609-5670

VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED

September 24, 2008

Joe Culbertson
W. O. Culbertson & Son's, Inc.
1101 Liberal St.
Dalhart, TX. 79002

Re: Hydrostatic Test Discharge Permit
Water Retention Pond
W. O. Culbertson & Son's, Inc.
Harding County, New Mexico

Dear Joe,

Hess Corporation (Hess) is preparing to hydrostatically test the West Bravo Dome CO2 transmission line we have constructed partly on W. O. Culbertson & Son's, Inc. (Culbertson) property in Sec. 31, T19N, R32E. Pursuant to the July 29, 2008 Letter Agreement between Hess and Culbertson, we will construct a water retention pond on the property to store the water for the test, and we will ultimately discharge the water on the property in the manner provided for in the Agreement. To satisfy the New Mexico Water Quality Control Commission regulations regarding public notice requirements for a Hydrostatic Test permit, Hess Corporation is required to submit to Culbertson, an underlying and adjacent landowner of the discharge location, a copy of the public notice. Enclosed, please find a copy of this notice.

If you have any questions or concerns, please call me at 713-609-5517.

Yours very truly,

James S. Hughart

Cc. Mike Ford

Encl.

NOTICE OF PUBLICATION

Hess Corporation, 244 Bueyeros Highway, Mosquero, New Mexico, 87733 has submitted an application for an Individual Hydrostatic Test Discharge Permit to the New Mexico Energy, Minerals and Natural Resources Department, Oil Conservation Division (OCD) for the West Bravo Dome Carbon Dioxide Transmission Line. Approximately 11.5 miles of new 12-inch carbon steel pipe will be hydrostatically tested using water from the Girard Well. Upon completion of the test, Hess Corporation will transfer the water from the pipeline into a nearby lined temporary holding pond. The water will remain in the lined temporary holding pond while water analyses are completed. Once water analyses are completed and approved, the water will be pumped from the pond onto the surrounding land within Section 31, T19N, R32E. The pond liner will be removed and the area reclaimed once the pond is empty. Driving directions to the discharge site follow: From the intersection of State Highway 102 and Highway 420 in Harding County, go east on Highway 420 (caliche highway) for 6 miles, turn right into Oxy's Sheep Mountain Pipeline Station on the edge of the road. The temporary pond and the discharge point is in an area just southwest of and adjacent to Oxy's site. Approximately 362,000 gallons of wastewater will be generated from the hydrostatic test. The water is expected to meet Water Quality Control Commission (WQCC) water quality standards. If WQCC water quality standards are not met, the test water will be hauled from the temporary storage pond to an approved disposal location, or treated to OCD specifications for discharge. The depth of groundwater potentially affected by the discharge is about 50 feet below the surface. The total dissolved solids concentration of the groundwater in the area is less than 500 parts per million. Any interested person may obtain information, submit comments, and request to be placed on a facility-specific mailing list for future notice by contacting Brad Jones at the New Mexico OCD at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3487. The OCD will accept comments and statements of interest regarding the permit application and will create a facility-specific mailing list of persons who wish to receive future notices.

AVISO PARA PUBLICACION

La Corporación de Hess, 244 Carretera de Bueyeros, Mosquero, Nuevo México, 87733 ha sometido una aplicación para un Permiso Hidrostático Individual de la Descarga de la Prueba a la Energía de Nuevo México, los Minerales y el Departamento Natural de Recursos, la Conservación del Petróleo División (OCD) para el Oeste Bravo la Línea de la Transmisión de Bióxido de carbono de Cúpula. Aproximadamente 11.5 millas de nuevo tubo de 12 pulgadas de acero serán probadas hidrostáticamente utilizando agua del Girard Bien. Sobre la terminación de la prueba, la Corporación de Hess transferirá el agua de la tubería en una cerca de forró temporario teniendo charca. El agua se quedará en el forró temporario teniendo charca mientras agua analizada es completada. Una vez que el agua se analiza es completada y es aprobada, el agua será bombeada de la charca en la tierra circundante dentro de la Sección 31, T19N, R32E. El paquebote de la charca será quitado y el área recuperó una vez la charca es vacía. Las direcciones de conducir al sitio de la descarga siguen: Del cruce de carretera nacional 102 y la Carretera 420 en el Condado de Harding, van al este en Carretera 420 (carretera de caliche) para 6 millas, gira a la derecha en la Estación de Tubería de Montaña de la Oveja de Oxy al borde del camino. La charca temporaria y el punto de la descarga están en un área justo suroeste de y adyacente al sitio del Oxy. Aproximadamente 362,000 galones de wastewater serán engendrados de la prueba hidrostática. El agua es esperada encontrar Comisión de Control de calidad de Agua (WQCC) los estándares de la calidad de agua. Si los estándares de la calidad de agua de WQCC no son encontrados, el agua del prueba será acarreada de la charca del almacenamiento temporal a una ubicación aprobada de la disposición, o tratado a especificaciones de OCD para la descarga. La profundidad de agua subterránea potencialmente afectado por la descarga está acerca de 50 pies debajo de la superficie. El suma se disolvió la concentración de sólidos de la agua subterránea en el área es menos de 500 partes por millón. Alguna persona interesada puede obtener información, se somete los comentarios, y petición para ser colocada en una lista de envío facilidad-específico para futura nota contactando a Brad Jones en el Nuevo México OCD en 1220 S. del sur. Francis Conduce, Santa Fe, Nuevo México 87505, el Teléfono (505) 476-3487. El OCD aceptará que los comentarios y las declaraciones del interés con respecto a la aplicación del permiso y creará una lista de envío facilidad-específico de personas que desea recibir futuras notas.

HESS CORPORATION
500 Dallas Street
Houston, TX 77002

James S. Hughart
Land Manager
(713) 609-5517
FAX: (713) 609-5670

VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED

September 24, 2008

Mary Libby Campbell
Yesterday's Valley Ranch, Inc.
250 Bravo Dome Hwy.
Bueyeros, New Mexico 88415

Re: Hydrostatic Test Discharge Permit
NW/4 Sec. 31, T19N, R32E
Land Owned by W. O. Culbertson & Son's, Inc.
Harding County, New Mexico

Dear Mary,

Hess Corporation (Hess) is preparing to hydrostatically test the West Bravo Dome CO2 transmission line originating in Sec. 5, T18N, R30E and terminating in Sec. 31, T19N, R32E on property owned by W. O. Culbertson & Sons, Inc. (Culbertson). Hess has arranged with Culbertson to construct a water retention pond adjacent to the terminus of the line and near the Sheep Mountain Pipeline Station to store water for the test, and we will ultimately discharge the water on the Culbertson property at the conclusion of the test. To satisfy the New Mexico Water Quality Control Commission regulations regarding public notice requirements for a Hydrostatic Test permit, Hess Corporation is required to submit to Yesterday's Valley Ranch, Inc., an adjacent landowner of the discharge location, a copy of the public notice. Enclosed, please find a copy of this notice.

If you have any questions or concerns, please call me at 713-609-5517.

Yours very truly,

James S. Hughart

Cc. Mike Ford

Encl.

NOTICE OF PUBLICATION

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AVISO PARA PUBLICACION

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HESS CORPORATION
500 Dallas Street
Houston, TX 77002

James S. Hughart
Land Manager
(713) 609-5517
FAX: (713) 609-5670

VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED

September 24, 2008

John Bemis
New Mexico State Land Office
P.O. Box 1148
310 Old Santa Fe Trail
Santa Fe, New Mexico 87501

Re: Hydrostatic Test Discharge Permit
NW/4 Sec. 31, T19N, R32E
Land Owned by W. O. Culbertson & Son's, Inc.
Harding County, New Mexico

Dear Mr. Bemis,

Hess Corporation (Hess) is preparing to hydrostatically test the West Bravo Dome CO2 transmission line originating in Sec. 5, T18N, R30E and terminating in Sec. 31, T19N, R32E on property owned by W. O. Culbertson & Sons, Inc. (Culbertson). Hess has arranged with Culbertson to construct a water retention pond adjacent to the terminus of the line and near the Sheep Mountain Pipeline Station, to store water for the test, and we will ultimately discharge the water on the property. To satisfy the New Mexico Water Quality Control Commission regulations regarding public notice requirements for a Hydrostatic Test permit, Hess Corporation is required to submit to the New Mexico State land Office (SLO), an adjacent landowner in Sec. 36, T19N, R32 E of the discharge location, a copy of the public notice. Enclosed, please find a copy of this notice.

For your information, a similar letter was sent to Mary Libby Campbell, President of Yesterday's Valley Ranch, Inc., which leases the Sec. 36 lands from the SLO.

If you have any questions or concerns, please call me at 713-609-5517.

Yours very truly,

James S. Hughart

Cc. Mike Ford

Encl.

NOTICE OF PUBLICATION

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AFFIDAVIT OF PUBLICATION

State of New Mexico
County of Union **SS.**

The undersigned, being first duly sworn according to law, on her oath deposes and says that she is the office manager of the newspaper named the *Union County Leader* and that she has personal knowledge of the facts stated herein: That the said *Union County Leader* is a weekly newspaper of general paid circulation in Union and Harding Counties published in the County of Union and State of New Mexico; entered under the second class privilege at the U.S. Post Office at Clayton, Union County, New Mexico, and having been uninterruptedly and continuously so printed and published during a period of more than six months next to the date of the printing of the first publication concerning which this affidavit is made and a copy of which is hereto attached; that the said publication, a printed copy of which is hereto attached and made a part of this affidavit, was published in said newspaper once ~~each week for _____ successive weeks;~~ and that payment for said publication has been made or assessed as part of the court costs to which it relates; said publications having been made on the following dates, to wit:

1st publication: the 3rd day of September, 2008
2nd publication: the ___ day of _____, 20__
3rd publication: the ___ day of _____, 20__
4th publication: the ___ day of _____, 20__

Union County Leader
Patricia Herrera
Patricia Herrera, Office Manager

Subscribed and sworn to before me this 4th day of September, 2008

Mary Sue "Brandy" Payton
Notary Public, Union County, New Mexico
My commission expires December 13, 2011

Publisher's Bill:

211 lines, ONE time $ 147.70
_____ inches, display _____ times $ _____
Tax $ 11.45
Total $ 159.15

Received payment:

_____

_____

NOTICE OF PUBLICATION

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AVISO PARA PUBLICACIÓN

La Corporación de Hess, 244 Carretera de Bueyeros, Mosquero, Nuevo México, 87733 ha sometido una aplicación para un Permiso Hidrostitico Individual de la Descarga de la Prueba a la Energía de Nuevo México, los Minerales y el Departamento Natural de Recursos, la Conservación del Petróleo División (OCD) para el Oeste Bravo la Línea de la Transmisión de Bióxido de carbono de Cúpula. Aproximadamente 11.5 millas de nuevo tubo de 12 pulgadas de acero serán probadas hidrostáticamente utilizando agua del Girard Bien. Sobre la terminación de la prueba; la Corporación de Hess transferirá el agua de la tubería en una cerca de forró temporario teniendo charca. El agua se quedará en el forró temporario teniendo charca mientras agua analizada es completada. Una vez que el agua se analiza es completada y es aprobada, el agua será bombeada de la charca en la tierra circundante dentro de la Sección 31; T19N, R32E. El paquebote de la charca será quitado y el área recuperó una vez la charca es vacía. Las diiecciones de conducir al sitio de la descarga siguen: Del cruce de carretera nacional 102 y la Carretera 420 en el Condado de Harding, van al este en Carretera 420 (carretera de caliche) para 6 millas, gira a la derecha en la Estación de Tubería de Montaña de la Oveja de Oxy al borde del camino. La charca temporaria y el punto de la descarga están en un área justo suroeste de y adyacente al sitio del Oxy. Aproximadamente 362,000 galones de wastewater serán engendrados de la prueba hidrostática. El agua es esperada encontrar Comisión de Control de calidad de Agua (WQCC) 10s estándares de la calidad de agua. Si los estándares de la calidad de agua de WQCC no son encontrados, el agua del prueba será acarreada de la charca del almacenamiento temporal a una ubicación aprobada de la disposición, o tratado a especificaciones de OCD para la descarga. La profundidad de agua subterránea potencialmente afectado por la descarga está acerca de 50 pies debajo de la superficie. El suma se disolvió la concentración de sólidos de la agua subterránea en el área es menos de 500 partes por millón. Alguna persona interesada puede obtener información, se somete los comentarios, y petición para ser colocada en una lista de envío facilidad-específico para futura nota contactando a Brad Jones en el Nuevo México OCD en 1220 S. del sur. Francis Conduce, Santa Fe, Nuevo México 87505, el Teléfono (505)-476-3487. El OCD aceptará que los comentarios y las declaraciones del interés con respecto a la aplicación del permiso y creará una lista de envío facilidad-específico de personas que desea recibir futuras notas.

9-3

AFFIDAVIT OF PUBLICATION

State of New Mexico
County of Union **SS.**

The undersigned, being first duly sworn according to law, on her oath deposes and says that she is the office manager of the newspaper named the *Union County Leader* and that she has personal knowledge of the facts stated herein: That the said *Union County Leader* is a weekly newspaper of general paid circulation in Union and Harding Counties published in the County of Union and State of New Mexico; entered under the second class privilege at the U.S. Post Office at Clayton, Union County, New Mexico, and having been uninterruptedly and continuously so printed and published during a period of more than six months next to the date of the printing of the first publication concerning which this affidavit is made and a copy of which is hereto attached; that the said publication, a printed copy of which is hereto attached and made a part of this affidavit, was published in said newspaper once ~~each week for _____ successive weeks~~, and that payment for said publication has been made or assessed as part of the court costs to which it relates; said publications having been made on the following dates, to wit:

1st publication: the 3rd day of September, 2008
2nd publication: the 1 day of 1, 20 1
3rd publication: the 1 day of 1, 20 1
4th publication: the 1 day of 1, 20 1

Union County Leader

Patricia Herrera

Patricia Herrera, Office Manager

Subscribed and sworn to before me this 19th day of September, 2008

Mary Sue Brandy Payton

Mary Sue "Brandy" Payton
Notary Public, Union County, New Mexico
My commission expires December 13, 2011

Publisher's Bill:

_____ lines, _____ times $_____
24 3/4 inches, display ONE time $ 142.31
Tax $ 11.03
Total $ 153.34

Received payment:

_____

_____

NOTICE OF PUBLICATION

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9-3

AFFIDAVIT OF SIGN POSTING

STATE OF NEW MEXICO)
)ss
COUNTY OF HARDING)

BEFORE ME, the undersigned authority, personally appeared DANIEL HOLCOMB ("Affiant") on the date written below, who having been first duly sworn according to law, deposes and says:

1. I am over the age of eighteen and competent to testify concerning the matters stated herein based on my own personal knowledge, education and experience.

2. I am a OPERATIONS TEAM LEADER employed by Hess Corporation, a Delaware corporation, in its Exploration and Production Americas Developments Group.

3. I have personal knowledge of Hess Corporation's West Bravo Dome Carbon Dioxide Transmission Line Project.

4. As part of the permitting process for Hess Corporation's West Bravo Dome Carbon Dioxide Transmission Line, Hess Corporation filed an application for an Individual Hydrostatic Test Discharge Permit ("IHTD Permit") with the New Mexico Energy, Minerals and Natural Resources Department – Oil Conservation Division. As part of the public notice requirement for the IHTD Permit, on September 2nd and 3rd, 2008, two (2) signs, each measuring 2' x 3', were placed at the following locations:

   a. The Mosquero, New Mexico Post Office located in Mosquero, New Mexico; and

   b. Occidental Petroleum's (Oxy's) Sheep Mountain Pipeline Station, the proposed discharge site, located on Highway 420 approximately 6 miles east of the intersection of State Highway 102 and Highway 420 in Harding County, New Mexico.

FURTHER AFFIANT SAYETH NAUGHT.

Daniel Holcomb

Daniel Holcomb

The foregoing was sworn to before me by Daniel Holcomb on this 26th day of September, 2008.

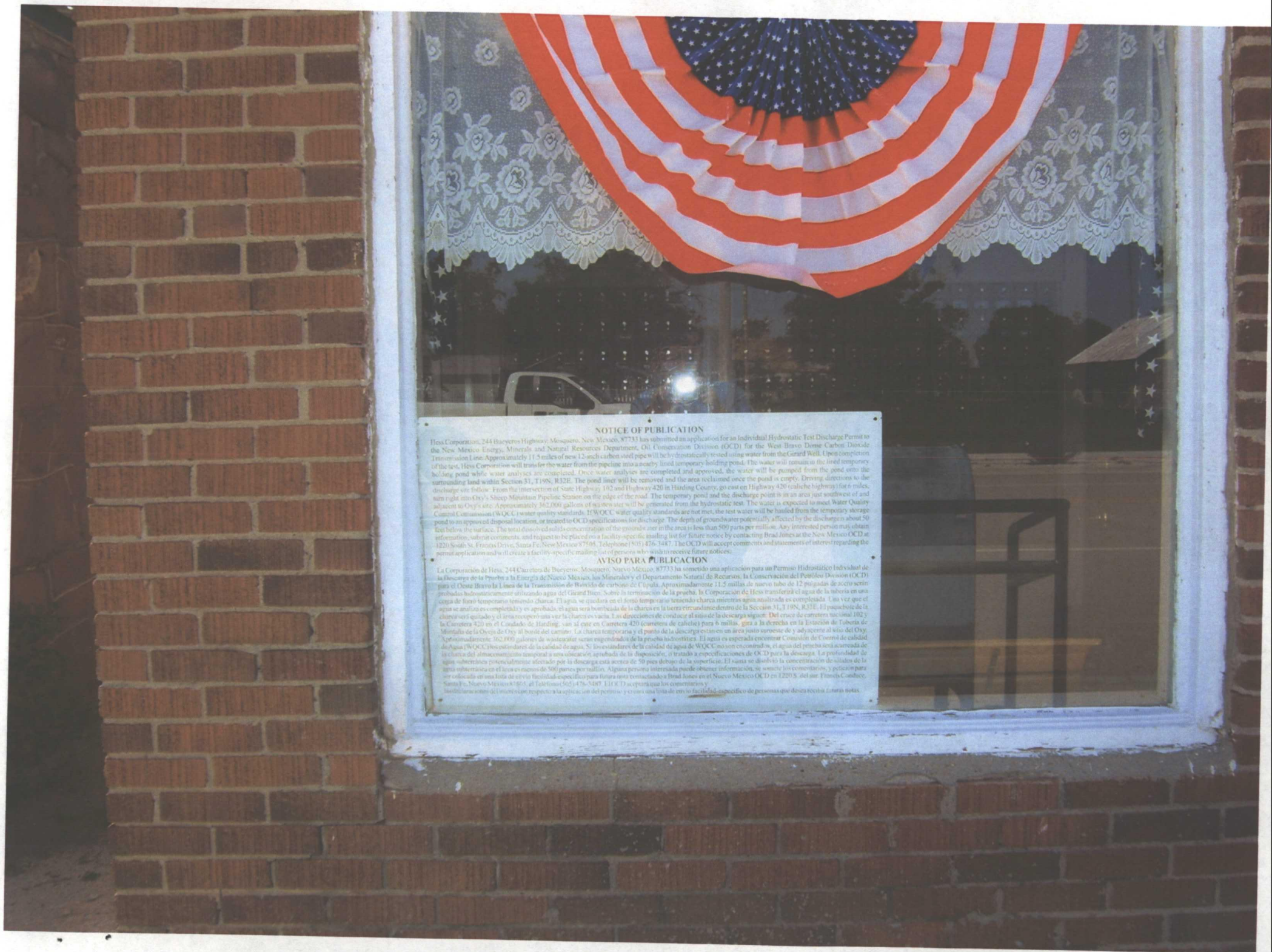
My Commission Expires: Barbara K. Shaw
(Seal) March 24, 2010

Barbara K. Shaw

Notary Public


NOTICE OF PUBLICATION
AVISO PARA PUBLICACION


UNITED STATES POST OFFICE
MOSQUERO, N. M. 87733



NOTICE OF PUBLICATION

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RECEIVED
2008 AUG 29 PM 12 35

FREEDOM NEWSPAPERS OF NEW MEXICO
QUAY COUNTY SUN
BOX 848
PORTALES, NM 88130
505-356-4481
August 27,2008

INVOICE

NM Oil Conservation Division
c/o Brad A Jones
1220 S. St. Francis Dr..
Santa Fe, NM 87505

ACCT NO 60010

LEGAL # 7946 PO 52100-000005120

Permit Notice - Hess HI-112

DATES RUN	# OF LINES	RATE	CHARGE
August 27, 2008	240	0 560	134.40
	0	0.450	0 00
	0	0 450	0.00
	0	0 450	0.00
	0	0 450	0.00
	0	0 450	0.00
	0	0.450	0.00
AFFIDAVIT	1	21 00	21.00
TEAR SHEET FEE	0	1.00	0.00
SALES TAX			11.56
TOTAL		TOTAL	166.96

ADVERTISING DUE AND PAYABLE 15 DAYS AFTER BILLING DATE
A 1 1/2% FINANCE CHARGE WILL BE ADDED ON ALL BALANCES OVER
30 DAYS

OK TO Pay

AFFIDAVIT OF LEGAL PUBLICATION

LEGAL # 7946

STATE OF NEW MEXICO
COUNTY OF CURRY:

Vickie Ferguson, being duly sworn, says That she is the Legal Clerk of The Quay County Sun, a daily Newspaper of general circulation, published in English at Clovis, said county and state, and that the hereto attached

Permit Notice - Hess HI-112

was published in said Quay County Sun, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico for 1 consecutive days/weeks on the same days as follows:

First Publication: August 27,2008
Second Publication.
Third Publication:
Fourth Publication:

Vickie Ferguson

Subscribed and sworn to before me
August 27, 2008

Notary Public
My Commission Expires APRIL 14, 2009

Copy of Publication

Legal 7946
August 27, 2008

NOTICE OF PUBLICATION

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations (20.6.2.3106 NMAC) the following discharge permit application(s) has been submitted to the Director of the New Mexico Oil Conservation Division ("NMOCD"), 1220 S. Saint Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

(HIP-112) Hess Corporation, 244 Bueyeros Highway, Mosquero, New Mexico, 87733 has filed an application for an Individual Hydrostatic Test Discharge Permit for the proposed MarkWest New Mexico L.P. Hobbs Pipeline a new for section of the West Bravo Dome Carbon Dioxide Transmission Line. Approximately 11.5 miles of new 12 inch carbon steel pipe will be hydrostatically tested using water from the Girard Well. Upon completion of the test, Hess Corporation will transfer the water from the pipeline into a nearby lined temporary holding pond. The water will remain in the lined temporary holding pond while water analyses are completed. Once water analyses are completed and approved, the water will be pumped from the pond onto the surrounding land within Section 31, Township 19 North, Range 32 East, NMPM, Harding County, New Mexico. The pond liner will be removed and the area reclaimed once the pond is empty. Driving directions to the discharge site follow: From the intersection of State Highway 102 and Highway 420 in Harding County, go east on Highway 420 (caliche highway) for 6 miles, turn right into Oxy's Sheep Mountain Pipeline Station on the edge of the road. Approximately 362,000 gallons of discharge water will be generated from the hydrostatic test, and tested prior to disposal. Due to the new pipe and water to be used during the testing, the discharge water is expected to meet Water Quality Control Commission (WQCC) water quality standards and will be discharged onto private property surrounding the pond. If WQCC water quality standards are not met, the test wastewater will be hauled to an approved disposal location or treated on-site for an approved discharge. Groundwater most likely to be affected by an accidental discharge is at a depth of approximately 50 feet below ground surface with a total dissolved solids concentration of approximately 500 mg/l. The plan consists of a description of the method and location for retention, and testing of water and solids, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

The NMOCD has determined that the application is administratively complete and has prepared a draft permit. The NMOCD will accept comments and statements of interest regarding this application and will create a facility-specific mailing list for persons who wish to receive future notices. Persons interested in obtaining further information, submitting comments or requesting to be on a facility specific mailing list for future notices may contact the Environmental Bureau Chief of the Oil Conservation Division at the address given above. The administrative completeness determination and draft permit may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday, or may also be viewed at the NMOCD web site HYPERLINK "http://www.emnrd.state.nm.us/ocd/" http://www.emnrd.state.nm.us/ocd/. Persons interested in obtaining a copy of the application and draft permit may contact the NMOCD at the address given above. Prior to ruling on any proposed discharge permit or major modification, the Director shall allow a period of at least thirty (30) days after the date of publication of this notice during which interested persons may submit comments or request that NMOCD hold a public hearing. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines that there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed permit based on information available, including all comments received. If a public hearing is held, the director will approve or disapprove the proposed permit based on information in the permit application and information submitted at the hearing.

Para obtener más información sobre esta solicitud en español, sírvase comunicarse por favor: New Mexico Energy, Minerals and Natural Resources Department (Depto. Del Energia, Minerals y Recursos Naturales de Nuevo México), Oil Conservation Division (Depto. Conservacio n Del Petróleo), 1220 South St. Francis Drive, Santa Fe, New Mexico (Contacto: Dorothy Phillips, 505-476-3461).

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 21st day of August, 2008.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

Mark Fesmire,
Director

THE SANTA FE
NEW MEXICAN
Founded 1849

RECEIVED
2008 SEP 5 PM 2 19

NM EMNRD Oil Cons.
Brad Jones
1220 S. St. Francis Drive
Santa Fe, NM 87505

ALTERNATE ACCOUNT: 56689
AD NUMBER: 00265933 ACCOUNT: 00002212
LEGAL NO: 85879 P.O. #: 52100-00000137
251 LINES 1 TIME(S) 218.40
AFFIDAVIT: 7.00
TAX: 17.89
TOTAL: 243.29

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO
COUNTY OF SANTA FE

I, L.Paquin, being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN, a daily newspaper published in the English language, and having a general circulation in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication # 85879 a copy of which is hereto attached was published in said newspaper 1 day(s) between 08/27/2008 and 08/27/2008 and that the notice was published in the newspaper proper and not in any supplement; the first date of publication being on the 27th day of August, 2008 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

/S/ L. Paquin
LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this 27th day of August, 2008

Notary Pamela Anne Beach

Commission Expires: May 31, 2011

OK To Pay

OFFICIAL SEAL
Pamela Anne Beach
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires: 5/31/11

NOTICE OF PUBLICATION

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

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(caliche highway) for
6 miles, turn right into
Oxy's Sheep Moun-
tain Pipeline Station
on the edge of the
road. Approximately
362,000 gallons of dis-
charge water will be
generated from the
hydrostatic test, and
tested prior to dis-
posal. Due to the new
pipe and water to be
used during the test-
ing, the discharge wa-
ter is expected to
meet Water Quality
Control Commission
(WQCC) water quality
standards and will be
discharged onto pri-
vate property sur-
rounding the pond. If
WQCC water quality
standards are not
met the test waste-
water will be hauled
to an approved dis-
posal location or
treated on-site for an
approved discharge.
Groundwater most
likely to be affected
by an accidental dis-
charge is at a depth
of approximately 50
feet below ground
surface with a total
dissolved solids con-
centration of approxi-
mately 500 mg/l. The
plan consists of a de-
scription of the
method and location
for retention, and
testing of water and
solids, including how
spills, leaks, and
other accidental dis-
charges to the sur-
face will be managed
in order to protect
fresh water.

The NMOCD has de-
termined that the ap-
plication is adminis-
tratively complete
and has prepared a
draft permit. The
NMOCD will accept
comments and state-
ments of interest re-
garding this applica-
tion and will create a
facility-specific mail-
ing list for persons
who wish to receive
future notices. Per-
sons interested in ob-
taining further infor-
mation, submitting
comments or request-
ing to be on a
facility-specific mail-
ing list for future no-
tices may contact the
Environmental Bureau
Chief of the Oil Con-
servation Division at
the address given
above. The adminis-
trative completeness
determination and
draft permit may be
viewed at the above
address between 8:00
a.m. and 4:00 p.m.,
Monday through Fri-
day, or may also be
viewed at the NMOCD
web site
http://www.emnrd.st
ate.nm.us/ocd/. Per-
sons interested in ob-
taining a copy of the
application and draft
permit may contact
the NMOCD at the ad-
dress given above.
Prior to ruling on any
proposed discharge
permit or major modi-
fication, the Director
shall allow a period of
at least thirty (30)
days after the date of
publication of this no-
tice, during which in-
terested persons may
submit comments or
request that NMOCD
hold a public hearing.
Requests for a public
hearing shall set forth
the reasons why a
hearing should be
held. A hearing will be
held if the Director
determines that there
is significant public
interest.

If no public hearing is
held, the Director will
approve or disap-
prove the proposed
permit based on in-
formation available,
including all com-
ments received. If a
public hearing is held,
the director will ap-
prove or disapprove
the proposed permit
based on information
in the permit applica-
tion and information
submitted at the
hearing.

Para obtener más in-
formación sobre esta
solicitud en espan_ol,
sírvase comunicarse
por favor: New Mex-
ico Energy, Minerals
and Natural Re-
sources Department
(Depto. Del Energia,
Minerals y Recursos
Naturales de Nuevo
México), Oil Conser-
vation Division
(Depto. Conserva-
cio´n Del Petróleo),
1220 South St. Francis
Drive, Santa Fe, New
México (Contacto:
Dorothy Phillips,
505-476-3461)

GIVEN under the Seal
of New Mexico Oil
Conservation Com-
mission at Santa Fe,
New Mexico, on this
21st day of August,
2008.

STATE OF NEW MEX-
ICO
OIL CONSERVATION
DIVISION

S E A L
Mark Fesmire,
Director
Legal No. 85879
Pub. Aug. 27, 2008

New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson
Governor

Joanna Prukop
Cabinet Secretary
Reese Fullerton
Deputy Cabinet Secretary

Mark Fesmire
Division Director
Oil Conservation Division

August 21, 2008

Mr. Michael D. Ford
Hess Corporation
500 Dallas Street
Houston, Texas 77002

Re: Hydrostatic Test Discharge Permit HIP-112
Hess Corporation
Section 31, Township 19 North, Range 32 East, NMPM,
Harding County, New Mexico

Dear Mr. Ford:

The New Mexico Oil Conservation Division (OCD) has received Hess Corporation's (Hess) request, dated July 16, 2008, revised notice of intent (NOI), emailed August 6, 2008, for authorization to discharge approximately 362,000 gallons of wastewater from a hydrostatic test of approximately 11.5 miles of a new 12-inch carbon dioxide (CO_2) transmission pipeline, approximately 6 miles northwest of Rosebud, New Mexico. The proposed discharge site is in the West Brave Dome field located within Section 31, Township 19 North, Range 32 East, NMPM, Harding County, New Mexico. The submittal provided the required information in order to deem the application "administratively" complete. The OCD approves the Quay County Sun as the newspaper of general circulation for the published notice and the discharge location and the post office or grocery store in Mosquero, New Mexico as proposed posting locations.

Therefore, the July 2006 New Mexico Water Quality Control Commission (WQCC) regulations notice requirements (20.6.2.3108 NMAC) must be satisfied and demonstrated to the OCD. The hydrostatic test event shall not be initiated until the OCD notice period passes, the permit is issued, and the additional permit fee is paid.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,

Brad A. Jones
Environmental Engineer

BAJ/baj

cc: OCD District IV Office, Santa Fe

Jones, Brad A., EMNRD

From: Ford, Michael [MFord@hess.com]
Sent: Monday, August 18, 2008 4:12 PM
To: Jones, Brad A., EMNRD
Subject: Land Ownership Maps - WBD Transmission Line
Attachments: Land Ownership.pdf; Land Ownership North Offsets.pdf

Brad,

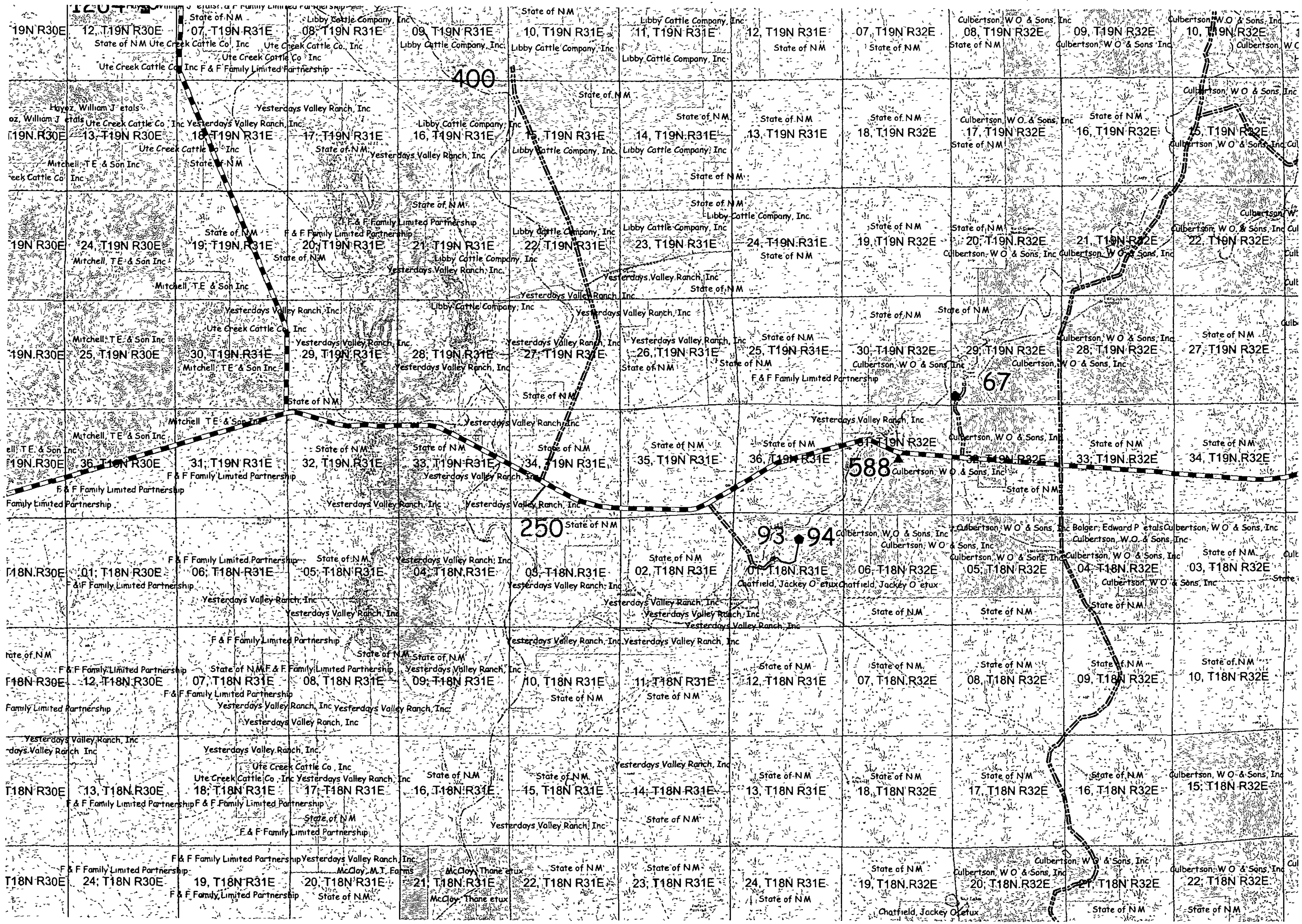
Per our phone conversation this afternoon, the attached PDF files contain the land ownership maps for Hess Corporation's proposed temporary lined pond and discharge location for the hydrostatic test of the new carbon dioxide transmission line. The proposed pond and discharge site are located within Section 31, T-19-N, R-32-E.

You should be able to zoom in on the map using the features in the PDF file.

Let me know if you have any questions.

Mike Ford
Environmental Advisor
Hess Corporation
Phone: 713-609-4204

<<Land Ownership.pdf>> <<Land Ownership North Offsets.pdf>>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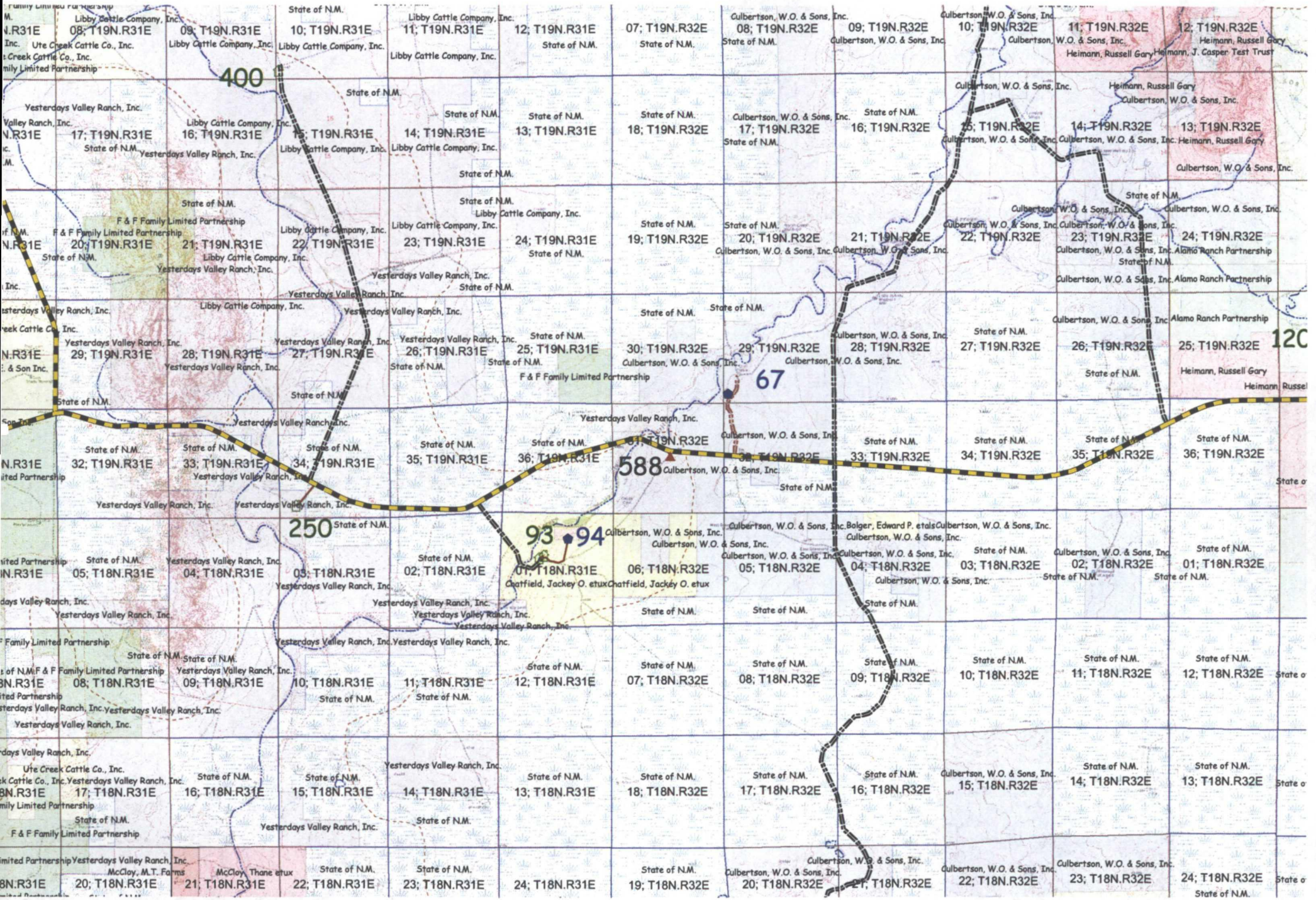
Culbertson, W O & Sons, Inc
Ute Creek Cattle Co, Inc
F & F Family Limited Partnership
Hayoz, William J etals
Yesterdays Valley Ranch, Inc
Mitchell, T E & Son Inc
Bolger, Edward P etals
Chatfield, Jackey O etux
McCloy, M T Farms
McCloy, Thane etux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State of N.M.
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Yesterdays Valley Ranch, Inc.
Ute Creek Cattle Co., Inc.
F & F Family Limited Partnership
Culbertson, W.O. & Sons, Inc.
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Heimann, J. Casper Test Trust
Alamo Ranch Partnership
Balger, Edward P. etals
Chatfield, Jackey O. etux
McCloy, M.T. Farms
McCloy, Thane etux
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Jones, Brad A., EMNRD

From: Ford, Michael [MFord@hess.com]
Sent: Tuesday, August 19, 2008 12:54 PM
To: Jones, Brad A., EMNRD
Subject: Landowner Agreements - CO2 Transmission Line Hydrostatic Test
Attachments: Surface Use Agreement.pdf; Pond Agreement.pdf

Brad,

The attached PDF files contain copies of the signed surface use and water retention pond agreements with the land owner for the proposed storage and discharge of our West Bravo Dome CO2 transmission line hydrostatic test water.

Please contact me if you have any questions regarding this information.

Mike Ford
Environmental Advisor
Hess Corporation
Phone: 713-609-4204

<<Surface Use Agreement.pdf>> <<Pond Agreement.pdf>>

HESS CORPORATION
500 Dallas Street
Houston, TX 77002

James S. Hughart
Land Manager
(713) 609-5517
FAX: (713) 609-5670

July 7, 2008

David and Cathy Whatley
233 Highwell Rd.
Nara Visa, New Mexico 88430

Re: Right-of-Way and Surface Use Agreements
W. O. Culbertson & Sons, Inc.
Harding County, New Mexico

Dear David and Cathy,

Thank you for your prompt handling of the execution of the right-of-way and surface use agreements last week.

Enclosed for your files is a fully executed copy of the Surface Use Agreement. I am sending this off for recording in Harding County and I will provide you the recording information when available.

If you have any questions or concerns, please call anytime.

Yours very truly,

James S. Hughart

2008-017

SURFACE USE AGREEMENT

This Surface Use Agreement ("Agreement") is dated and made effective May 1, 2008 ("Effective Date"), by and between W. O. Culbertson & Sons, Inc., ("WOC"), whose address is 1101 Liberal St., Dalhart, Texas, 79022 and Hess Corporation ("Hess"), a Delaware corporation with an office at 500 Dallas St., Level 2, Houston, Texas 77002. WOC and Hess are hereinafter individually referred to as "Party" and collectively as the "Parties".

WHEREAS, Hess is constructing a carbon dioxide gas processing plant (the Plant) located in Section 5, Township 18 North, Range 30 East, Harding County, New Mexico for the purpose of processing carbon dioxide gas to be produced from the nearby West Bravo Dome Carbon Dioxide Gas Unit and other leases and lands; and

WHEREAS, Hess intends to construct an approximate twelve (12) mile carbon dioxide steel transport line ("the Transport Line") from the Plant through portions of Township 18 North, Range 30 East and Township 19 North, Ranges 30-32 East and ending in Section 31, Township 19 North, Range 32 East at the interconnect with the Sheep Mountain Pipeline located near Rosebud, New Mexico; and

WHEREAS, Portions of the Transport Line shall cross lands owned in fee simple or leased from the State of New Mexico by WOC located in Section 31, Township 19 North, Range 32 East ("the WOC Lands").

NOW THEREFORE, in consideration of the foregoing and the mutual covenants and agreements contained herein, the receipt and sufficiency of which are hereby acknowledged, the Parties agree as follows:

ARTICLE I.

Unless otherwise agreed to in writing by the Parties hereto, Hess, with respect to all operations within the confines of the WOC Lands, shall:

(a) Bury pipelines to a minimum depth of 42 inches from the surface except cathodic protection (CP) test stations and road crossing signs, which in the judgement of Hess should be installed or left at or above ground level, need not be buried. In the event that rock or other subsoil conditions do not permit a pipeline to be constructed at or below this depth by normal construction methods, each pipeline constructed hereunder shall be constructed at the lowest depth above the 42-inch minimum depth specified above that normal construction methods will permit. Grantee shall remove the top soil and set it aside from the excavation of the ditch. Upon completion of the construction and installation of the pipeline the topsoil will be replaced on top of the ditch and the right-of-way will be reseeded with a mixture of native grass species. Restoration of the pipeline route surface and any roads constructed will be according to good surface management practices involving water harvesting. Furthermore, any subsequent damage to property offsetting the pipeline route surface resulting from erosion of the route will be reclaimed, in a timely manner, to its historical range condition. WOC will be consulted in road placement and restoration decisions.

(b) Conduct no operations within 500 feet of a house or barn in existence as of the date of this Agreement.

(c) Use no chemicals or apply manufactured chemical substances on roads.

(d) Pay WOC for actual damages to improvements and personal property situated on the WOC Lands that may be caused by Hess' operations conducted thereon.

(e) Utilize lands having a width of no more than 50 feet (30 feet of right-of-way, where a right of way is granted, and 20 feet extra of workspace) for pipelines across the WOC Lands and, for ingress thereto or egress therefrom, use only existing roads and the 30 foot pipeline right-of-way plus 20 feet extra workspace itself.

(f) Take all reasonable steps to prevent the contamination, which may result from Hess' operations, of any and all waters in surface tanks or storage tanks and any and all surface and subsurface water bearing strata situated on the premises and further endeavor to prevent the contamination of the surface of the premises from substances used by Hess.

(g) As soon as feasible, ditch all buried pipelines so as to replace the original top soil at the surface as reasonably close as practicable to original land contours and soil condition.

(h) When laying pipelines, make no cuts in the grass turf on WOC Lands, except as may be necessary to enable pipeline laying machinery to operate, and, with respect to such pipelines, promptly fill and restore all sinkholes as may develop from Hess' operations.

(i) While using roads for pipeline laying operations, keep the portion of the road so used adequately watered down to prevent the excessive raising of dust.

(j) Keep all creek and gully crossings traversed by Hess both graded and passable.

(k) For all work, construction, and maintenance activities conducted on WOC Lands, prevent soil washing and erosion whenever reasonably possible to do so and promptly repair all such washing and erosion that may occur from Hess' operations.

(l) Permit no firearms on WOC Lands, permit no discharging of firearms, and permit no hunting thereon by Hess or any of its contractors or subcontractors.

(m) Promptly pick up and remove all trash introduced onto WOC Lands by Hess or its contractors or their subcontractors.

(n) Permit no consumption of alcoholic beverages on WOC Lands by Hess or its contractors or their subcontractors.

(o) Permit no fires on WOC Lands.

(p) Promptly close and secure all gates opened by Hess or its contractors or their subcontractors. Any gates left open for extended periods of time will be manned at the gate.

(q) Whenever possible, maintain metal trash containers at all work sites while such work is in progress.

(r) Permit no dumping of trash or harmful fluids of any sort.

(s) Maintain and enforce a speed limit for all vehicles on WOC Lands, for vehicles of Hess and its contractors or their subcontractors, not to exceed 30 miles per hour, or such lesser speed as necessary to prevent road damage or the raising of excess dust.

(t) Provide portable toilets at all work sites while pipeline installation or maintenance operations are being conducted, and otherwise use or dig latrines no deeper than 15 feet beneath the surface.

(u) Use no part of WOC Lands to store machinery, equipment, pipe or other property, not being promptly used by Hess.

(v) Within one hundred eighty (180) days after the Transport Line placed on WOC Lands ceases to be used for its intended purpose, remove any portion that has not been buried below ordinary plow depth, unless previously agreed upon by WOC and Hess to be left for the express use and disposition by WOC.

ARTICLE II.

For the rights and privileges herein granted, including rights of ingress and egress to lands owned by WOC, Hess agrees to pay to WOC the following sums as liquidated surface damages for those portions of pipeline to be laid or replaced within the confines of WOC Lands:

(a) $70 per linear rod for the pipeline having a nominal diameter in excess of eight inches and less than 20 inches. The aforementioned payments shall cover both Hess' right-of-way and associated surface damages but expressly excludes damages contemplated under Article I (d). Payment shall be tendered to WOC prior to Hess' commencement of work on WOC Lands. WOC shall simultaneously provide Hess an executed and recordable right-of-way covering such lands upon its receipt of payment for surface damage to lands that WOC holds in fee.

(b) All actual damages for breach of the covenants herein contained, which payment shall become due and payable no more than sixty (60) days from the date that such damage occurs.

ARTICLE III.

Hess shall not, either directly or indirectly, compete with WOC to acquire grazing leases within the confines of WOC.

ARTICLE IV.

This Agreement will be for a term of two (2) years from the effective date hereof and for so long thereafter as the pipeline contemplated in this agreement, if constructed, remains in continuous use.

ARTICLE V.

The rights and duties of Hess under this Agreement shall be binding upon and shall inure to the benefit of Hess and its successors and to its assignees. An assignment of this agreement by Hess, either in whole or in part, shall not discharge Hess of its obligations under this Agreement with respect to the rights assigned, but, by acceptance of such assignment, the assignee shall be deemed to have assumed all of the duties and obligations of Hess with respect to the rights assigned. This Agreement shall be binding upon and shall inure to the benefit of WOC, its successors and assigns.

IN WITNESS WHEREOF, the PARTIES have, by the execution of this Assignment Agreement by their duly authorized representatives, caused this Assignment Agreement to become effective as of the date first set forth above.

W. O. CULBERTSON & SONS, INC.

By: David Whatley V.P. Board

HESS CORPORATION

By: _____
Randy J. Pharr, Attorney-in-Fact

STATE OF NEW MEXICO)
) SS:
COUNTY OF HARDING)

The foregoing instrument was acknowledged before me this 1st day of July, 2008, by David Whatley, Vice President of W. O. CULBERTSON & SONS, INC., on behalf of said company.

Barbara L. Shaw
Notary Public

My commission expires:
March 24, 2010

STATE OF TEXAS)
) SS:
COUNTY OF HARRIS)

On this 7th the day of July, 2008, before me appeared Randy J. Pharr, to me personally known, who, being by me duly sworn, did say that he is the Attorney-in-Fact of Hess Corporation, and that said instrument was signed on behalf of said corporation by authority of its Board of Directors, and said Randy J. Pharr acknowledged said instrument to be the free act and deed of said corporation.

WITNESS my hand and official seal the day and year first above written.

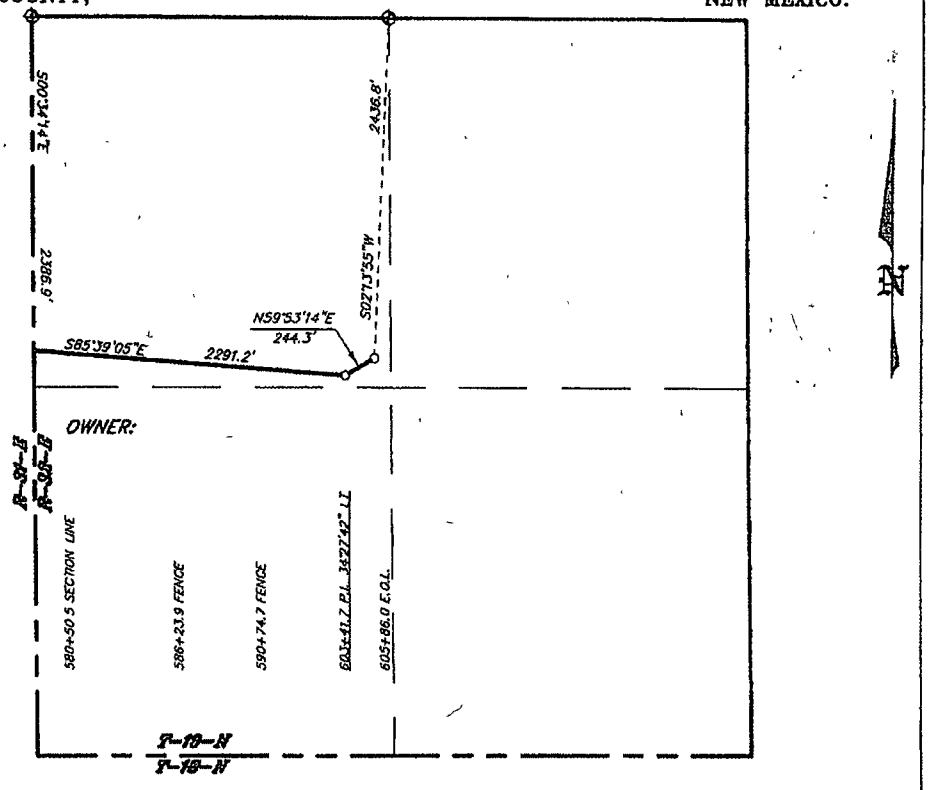
Notary Public

My commission expires:
11/20/11

ASHLEY HURLEY
MY COMMISSION EXPIRES
November 26, 2011

LINE #	WELL NAME	SECTION-TOWNSHIP-RANGE	DESC	SURFACE OWNER	SURVEY PLAT Y/N	COMMENTS	ROW LENGTH (FT)	PIPE SIZE	Cost/Rod	Rod Ft	Total Rods	ROW Cost
	Transmission	31-19N-32E	NWSE	W.O. Culbertson & Sons, Inc.	Y		2291.2	12"	$70.00	16.50	138.86	$9,720.24
	Transmission	31-19N-32E	NWSE	W.O. Culbertson & Sons, Inc.	Y		244.3	12"	$70.00	16.50	14.81	$1,036.42
						TOTAL ROW LENGTH	2,535.50				153.67	$10,756.67

SECTION 31, TOWNSHIP 19 NORTH, RANGE 32 EAST, N.M.P.M.,
HARDING COUNTY, NEW MEXICO.



LEGAL DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE, LOCATED IN SECTION 31, TOWNSHIP 19 NORTH, RANGE 32 EAST, N.M.P.M., HARDING COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND RIGHT OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY.

BEGINNING AT A POINT ON THE WEST SECTION LINE WHICH LIES S.00°34'14"E., 2386.9 FEET FROM THE NORTHWEST CORNER OF SAID SECTION 31; THENCE S 85°39'05"E., 2291.2 FEET; THENCE N.59°53'14"E., 244.3 FEET TO THE END OF THIS LINE WHICH LIES S.02°13'55"W., 2436.8 FEET FROM THE NORTH QUARTER CORNER OF SAID SECITON 31. SAID STRIP OF LAND BEING 2535.5 FEET OR 153.67 RODS IN LENGTH.

NOTE: COORDINATES AND BEARINGS ARE BASED ON A LAMBERT CONICAL PROJECTION OF THE NEW MEXICO STATE PLANE COORDINATE SYSTEM (NAD 83), EASTL ZONE AND DISTANCES ARE OF SURFACE VALUE.

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF LAND ACTUAL SURVEY AND MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND SURVEYS AS SPECIFIED IN THIS STATE.

GARY L. JONES No. 7977
N.M. No. 5074

1000 0 1000 2000 FEET

HESS CORPORATION

REF. PROPOSED STEEL PIPELINE

A PIPELINE CROSSING FEE LAND IN
SECTION 31, TOWNSHIP 19 NORTH, RANGE 32 EAST,
N.M.P.M., HARDING COUNTY, NEW MEXICO.

BASIN SURVEYS P.O. BOX 1786 – HOBBS, NEW MEXICO

W.O. Number: HARDING CO.	Drawn By: J. M. SMALL		
Date: 02-14-2008	Disk: JMS HARDING CO.	Survey Date: VARIES	Sheet 125 of Sheets

HESS CORPORATION
500 Dallas Street
Houston, TX 77002

James S. Hughart
Land Manager
(713) 609-5517
FAX: (713) 609-5670

July 31, 2008

Joe Culbertson
W. O. Culbertson & Sons, Inc.
1101 Liberal St.
Dalhart, TX. 79002

Re: Letter Agreement
Water Retention Pond
W. O. Culbertson & Son's, Inc.
Harding County, New Mexico

Dear Joe,

This letter agreement shall serve as the understanding between Hess Corporation (Hess) and W. O. Culbertson & Sons, Inc. (Culbertson) concerning Hess' intention to build a water retention pond (the Pond) on land owned by Culbertson in Sec. 31, T19N, R32E (Land). Culbertson hereby grants entry to Hess upon the Land for the construction of the Pond. The Pond will be used by Hess to store water to hydrostatically test a CO2 transmission line presently being constructed, in part, on Culbertson and terminating at the Oxy Interconnect Site with the Sheep Mountain Pipeline. A sketch of the area is attached for reference.

As consideration for this agreement, the receipt and sufficiency of which are hereby acknowledged, Hess agrees to pay Culbertson $10,000.00 USD within ten (10) days following receipt of an executed copy of this letter agreement.

This letter agreement will be subject to the following terms and conditions:

- On or before November 1, 2008, Hess will construct the Pond at a mutually agreeable location adjacent to the Oxy Interconnect Site by bulldozing the interior of the pond area to create dyke walls. A plastic pit liner will be laid down to completely cover the interior of the pit. The liner will be removed during reclamation work and will not be buried on site.
- A fence will be built around the reclamation site and will not be removed following reclamation until instructed by Culbertson.
- The impacted area along the western edge of the Oxy site is for ingress/egress access to the pipeline ROW and for pond dewatering operations.

- Pond dewatering operations will be conducted through hay bales to avoid creating any erosion from the water discharge. Rate of dewatering operations will be conducted at a pace not to cause new erosion. Dewatering will occur in the low area southwest of Oxy's pipeline station
- No new driveways will be built off of Hwy 420. Hess will utilize the existing driveway into the Oxy site.
- Hess will conduct the water retention and dewatering operations within the guidelines of the State permit.
- The existing two track road heading SW of the Oxy site will be flagged off during pipeline construction to deter its use by construction personnel.
- Hess will be responsible for reclaiming and reseeding the impacted area. Culbertson will be consulted on the seed mixture to be used. Hess will re-seed as many times as necessary to obtain grass stand on this reclamation area.

If this letter agreement meets with your understanding, please sign and return one (1) copy to my attention.

If you have any questions or concerns, please call me at 713-609-5517 or Danny Holcomb at 575-650-0316 (cell).

Yours very truly,

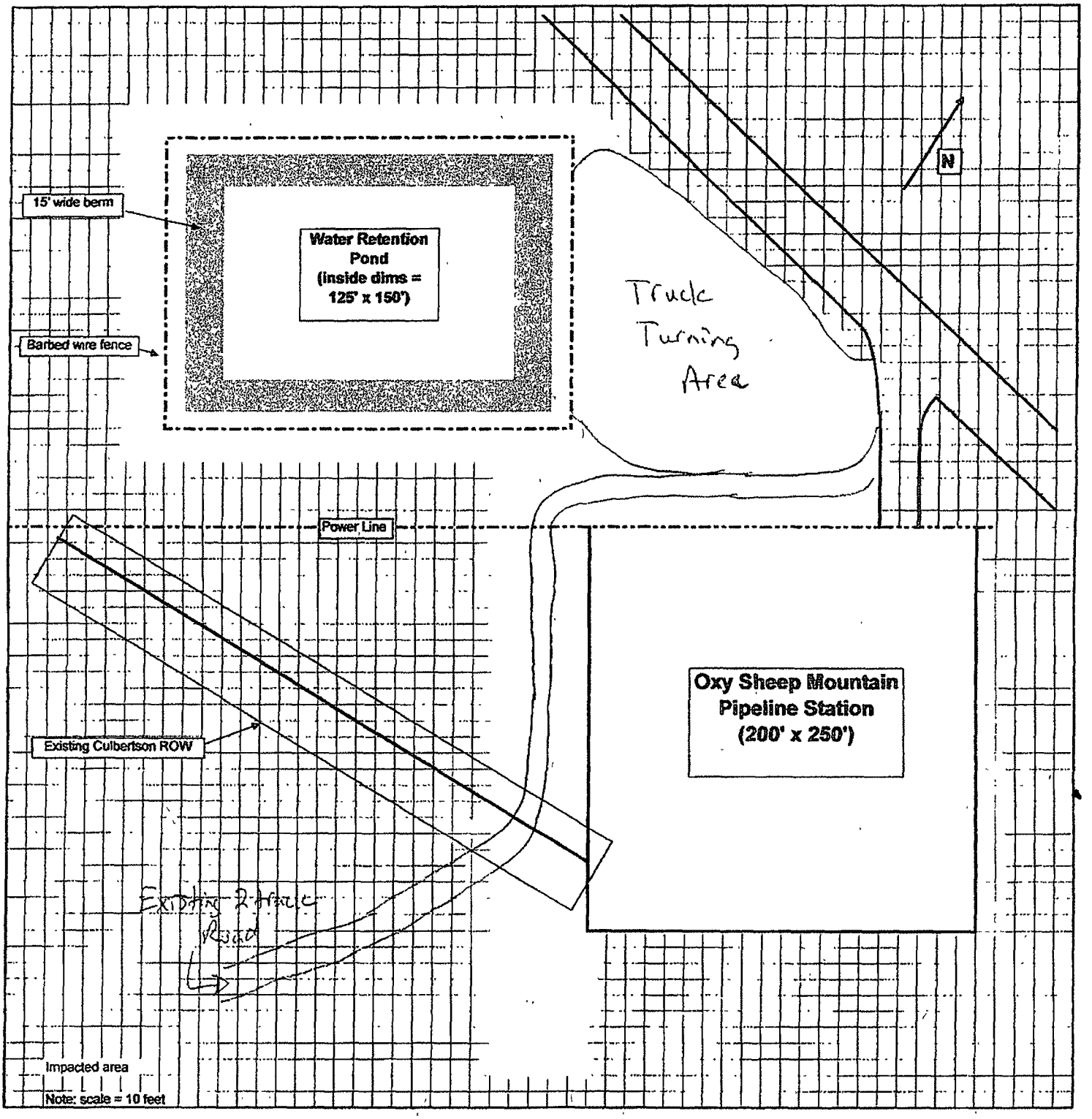
James S. Hughart

Agreed and accepted to this 1 day of Aug., 2008

W. O. Culbertson & Sons, Inc.

By:

Cc. Patrick Dunn
Danny Holcomb


15' wide berm
Barbed wire fence
Water Retention Pond (inside dims = 125' x 150')
N
Truck Turning Area
Power Line
Oxy Sheep Mountain Pipeline Station (200' x 250')
Existing Culbertson ROW
Existing 2-track Road
Impacted area
Note: scale = 10 feet

Jones, Brad A., EMNRD

From: Ford, Michael [MFord@hess.com]
Sent: Friday, August 01, 2008 12:50 PM
To: Jones, Brad A., EMNRD
Subject: Topographic Map - Proposed Discharge Location
Attachments: Indian Bathtub Topo.pdf

Brad,

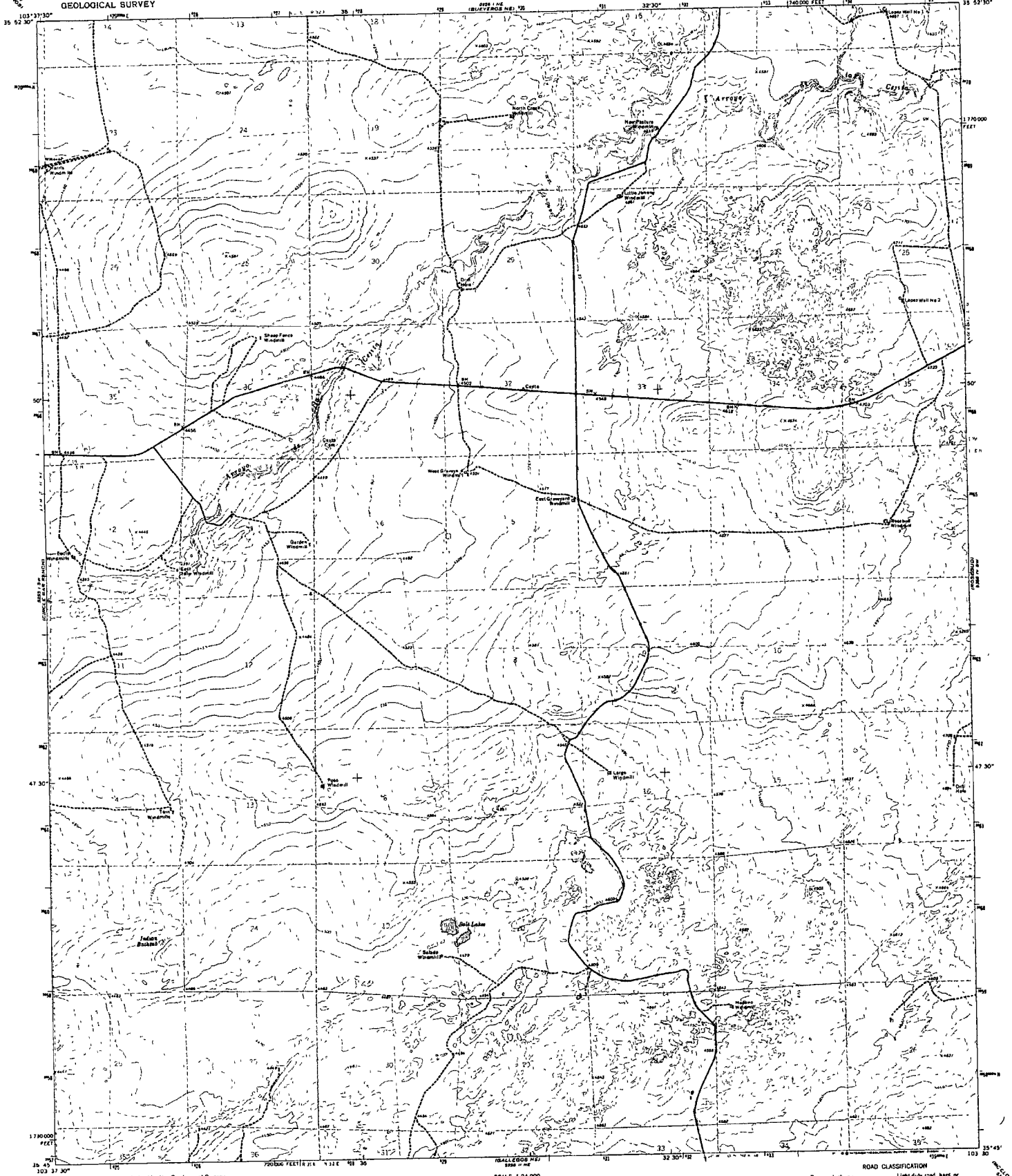
The attached PDF file contains an electronic copy of the Indian Bathtub Quadrangle USGS topographic map. Our proposed discharge is located within Section 31, T-19-N, R-32-E. I will be sending you a copy of a portion of the topo map identifying the discharge site within Section 31, with the additional information you requested, early next week.

Mike Ford
Environmental Advisor
Hess Corporation
Phone; 713-609-4204
Mobile: 713-829-6076

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

INDIAN BATHTUB QUADRANGLE

NEW MEXICO—HARDING CO
7 5 MINUTE SERIES (TOPOGRAPHIC)



Mapped, edited, and published by the Geological Survey

Control by USGS and NOS/NOAA

Topography by photogrammetric methods from aerial photographs taken 1972 Field checked 1973

Projection and 10 000-foot grid ticks New Mexico coordinate system east zone (transverse Mercator)
1000-meter Universal Transverse Mercator grid ticks zone 13 shown in blue 1927 North American datum

Fine red dashed lines indicate selected fence lines

SCALE 1 24 000

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

ROAD CLASSIFICATION

Primary highway hard surface	Light-duty road hard or improved surface
Secondary highway hard surface	Unimproved road
Interstate Route	U S Route State Route

NEW MEXICO
QUADRANGLE LOCATION

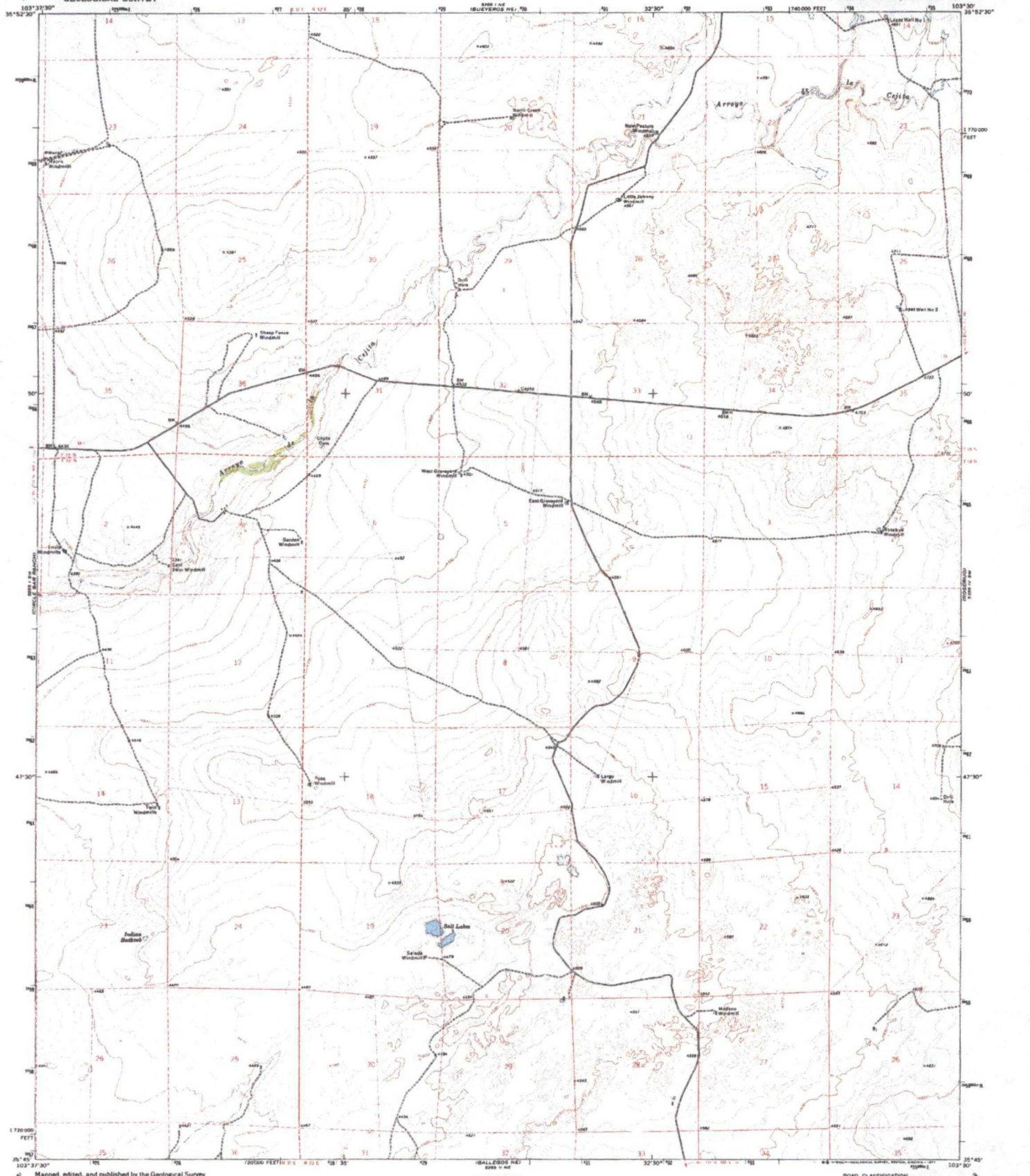
UTM GRID AND 1973 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U S GEOLOGICAL SURVEY DENVER, COLORADO 80225 OR RESTON VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

INDIAN BATHTUB, N MEX
N3545—W10330/7 5
1973
AMS 6258 I SE—SERIES V681

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

INDIAN BATHTUB QUADRANGLE
NEW MEXICO—HARDING CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



Mapped, edited, and published by the Geological Survey

Control by USGS and NOS/NOAA

Topography by photogrammetric methods from aerial photographs taken 1972. Field checked 1973

Projection and 10,000-foot grid ticks: New Mexico coordinate system, east zone (transverse Mercator)
1000 meter Universal Transverse Mercator grid ticks, zone 13, shown in blue. 1927 North American datum

Fine red dashed lines indicate selected fence lines

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

ROAD CLASSIFICATION

Primary highway, hard surface — Light-duty road, hard or improved surface
Secondary highway, hard surface — Unimproved road
Interstate Route — U. S. Route — State Route

NEW MEXICO
QUADRANGLE LOCATION

INDIAN BATHTUB, N. MEX.
N3545—W10330/7.5
1973
AMS 3255 I SE—SERIES V881

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

Jones, Brad A., EMNRD

From: Ford, Michael [MFord@hess.com]
Sent: Monday, August 04, 2008 3:44 PM
To: Jones, Brad A., EMNRD
Subject: Draft Public Notice - Discharge Permit Application
Attachments: WBD Public Notice.DOC

Brad,

The attached Word file contains a draft public notice for the transmission line hydrostatic test water discharge permit. Please review and let me have your comments. I will have this translated into Spanish following any wording revisions and will have you review the final versions before we go to public notice.

Mike Ford
Hess Corporation

<<WBD Public Notice.DOC>>

Draft Public Notice

Hess Corporation

West Bravo Dome CO2 Transmission Line Water Discharge Permit

NOTICE OF PUBLICATION

Hess Corporation, 244 Bueyeros Highway, Mosquero, New Mexico, 87733 has submitted an application for an Individual Hydrostatic Test Discharge Permit to the New Mexico Energy, Minerals and Natural Resources Department, Oil Conservation Division (OCD) for the West Bravo Dome Carbon Dioxide Transmission Line. Approximately 11.5 miles of new 12-inch carbon steel pipe will be hydrostatically tested using water from the Girard Well. Upon completion of the test, Hess Corporation will transfer the water from the pipeline into a nearby lined temporary holding pond. The water will remain in the lined temporary holding pond while water analyses are completed. Once water analyses are completed and approved, the water will be pumped from the pond onto the surrounding land within Section 31, T19N, R32E. The pond liner will be removed and the area reclaimed once the pond is empty. Driving directions to the discharge site follow: From the intersection of State Highway 102 and Highway 420 in Harding County, go east on Highway 420 (caliche highway) for 6 miles, turn right into Oxy's Sheep Mountain Pipeline Station on the edge of the road. The temporary pond and the discharge point is in an area just southwest of and adjacent to Oxy's site. Approximately 362,000 gallons of wastewater will be generated from the hydrostatic test. The water is expected to meet Water Quality Control Commission (WQCC) water quality standards. If WQCC water quality standards are not met, the test water will be hauled from the temporary storage pond to an approved disposal location, or treated to OCD specifications for discharge. The depth of groundwater potentially affected by the discharge is about 50 feet below the surface. The total dissolved solids concentration of the groundwater in the area is less than 500 parts per million. Any interested person may obtain information, submit comments, and request to be placed on a facility-specific mailing list for future notice by contacting Brad Jones at the New Mexico OCD at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3487. The OCD will accept comments and statements of interest regarding the permit application and will create a facility-specific mailing list of persons who wish to receive future notices.

Jones, Brad A., EMNRD

From: Ford, Michael [MFord@hess.com]
Sent: Wednesday, August 06, 2008 12:27 PM
To: Jones, Brad A., EMNRD
Subject: Notice of Intent - West Bravo Dome Transmission Line Hydrostatic Test
Attachments: WBD Add Perm Info.DOC

Brad,

The attached Word file contains the additional information we discussed last week regarding the construction and use of the temporary holding pond for the West Bravo Dome CO2 transmission line hydrostatic test.

Please contact me if you have any questions regarding this information.

Mike Ford
Hess Corporation

<<WBD Add Perm Info.DOC>>

West Bravo Dome Discharge Permit

Additional Information

Description of Activities

The new CO2 transmission line will be hydrostatically tested using approximately 362,000 gallons of water from the Girard Well. The line will be tested for at least eight continuous hours at a pressure of 3000 psi. Following completion of the hydrostatic test, the water will be pressured from the pipeline to the fenced and lined temporary holding pond through a 200 foot length of polyethylene pipe. It will take approximately 24 hours to transfer the water from the transmission line into the temporary holding pond.

Once the transmission line is empty, the water in the temporary holding pond will be sampled and analyzed for the constituents identified in NMAC 20.6.2.3103 (A)(B)(C). Upon receipt of the analytical results, Hess will submit them to the OCD for approval to discharge.

Once OCD has approved to discharge, water will be pumped at the rate of 1,500 gallons per hour to empty the pond. The water will be pumped from the pond onto the surrounding land through hay bales to prevent erosion. The water should be completely removed from the temporary pond within 20 days of the approval to discharge. Solids, if any, remaining in the pond will be drummed up for disposal in a state approved landfill. The pond liner will be removed within 7 days after the pond is emptied. The pond liner will be disposed of at the BFI landfill facility near Canyon, Texas. The pond area will be filled in after the liner is removed. The area will be reseeded as many times as necessary to obtain a grass stand. The landowner will be consulted on the seed mixture to be used. The landowner will approve when the perimeter barbed wire fence will be removed.

Method & Location for Collection and Retention of Fluids

A lined temporary holding pond will be used to contain the test water prior to discharge. The pond will be constructed by bulldozing the interior of the temporary pond area to create the dike walls above the existing ground level. The pond's inside dimensions will be 125 feet by 150 feet by 4 feet, with a capacity of 9,500 barrels. The pond's liner will be constructed of 20-mil low density polyethylene (LLDPE) with factory welded seams. The slopes will be no steeper than two horizontal feet to one vertical foot (2H:1V). The sub-grade material for the pond liner will be native soil. This should prevent cuts or tears in the liner during construction and use. The edges of the liner will be anchored in the bottom of a compacted earth-filled trench with a minimum depth of 18 inches. The liner will be protected from fluid forces and mechanical damage at the points of discharge into or suction from the temporary pond. The pond's construction utilizing dike walls higher than the existing land surface will prevent run-on of surface water. The temporary pond will be fenced with a four foot fence that has at least four strands of barbed wire evenly spaced. The pipeline construction contractor will use drip trays under hose and valve connections to collect drips and leaks when transferring the post-test water.

HESS CORPORATION
500 Dallas Street
Houston, TX 77002

May 19, 2008

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Mr. Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: FEF – WATER DISCHARGE PERMIT
PERMIT APPLICATIONS FEE PAYMENT
PIPELINE HYDROSTATIC TESTS
WEST BRAVO DOME PIPELINES

Dear Mr. Jones:

Attached please find Hess Corporation check #0001680101 in the amount of $300.00 to address payment of two pipeline hydrostatic test water discharge permit applications and one annual permission to discharge request filing fees.

The check is made out to the New Mexico Water Quality Management Fund as required.

If you should have any questions or require additional information, please feel free to contact me at (713) 609-4204.

Sincerely,

Michael D. Ford

Michael D. Ford
Environmental Advisor

MDF WBDPIPETESTFEELT DOC

Attachment

HESS CORPORATION
500 Dallas Street
Houston, TX 77002

May 14, 2008

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Mr. Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: FEF – WATER DISCHARGE PERMIT
NOTICE OF INTENT
PIPELINE HYDROSTATIC TEST
CO2 TRANSMISSION LINE
WEST BRAVO DOME

Dear Mr. Jones:

This is to provide notice of intent to discharge pipeline hydrostatic test water for Hess Corporation's new carbon dioxide (CO2) transmission line in the West Bravo Dome field located in northeast New Mexico. Information addressing the specific requirements for issuing the discharge permit is contained in the attached document. A map showing the location of the proposed discharge is also included.

A check in the amount of $100.00 will be sent under separate letter to the Water Quality Management Fund for payment of the required notice of intent to discharge filing fee.

If you should have any questions or require additional information, please feel free to contact me at (713) 609-4204.

Sincerely,

Michael D. Ford

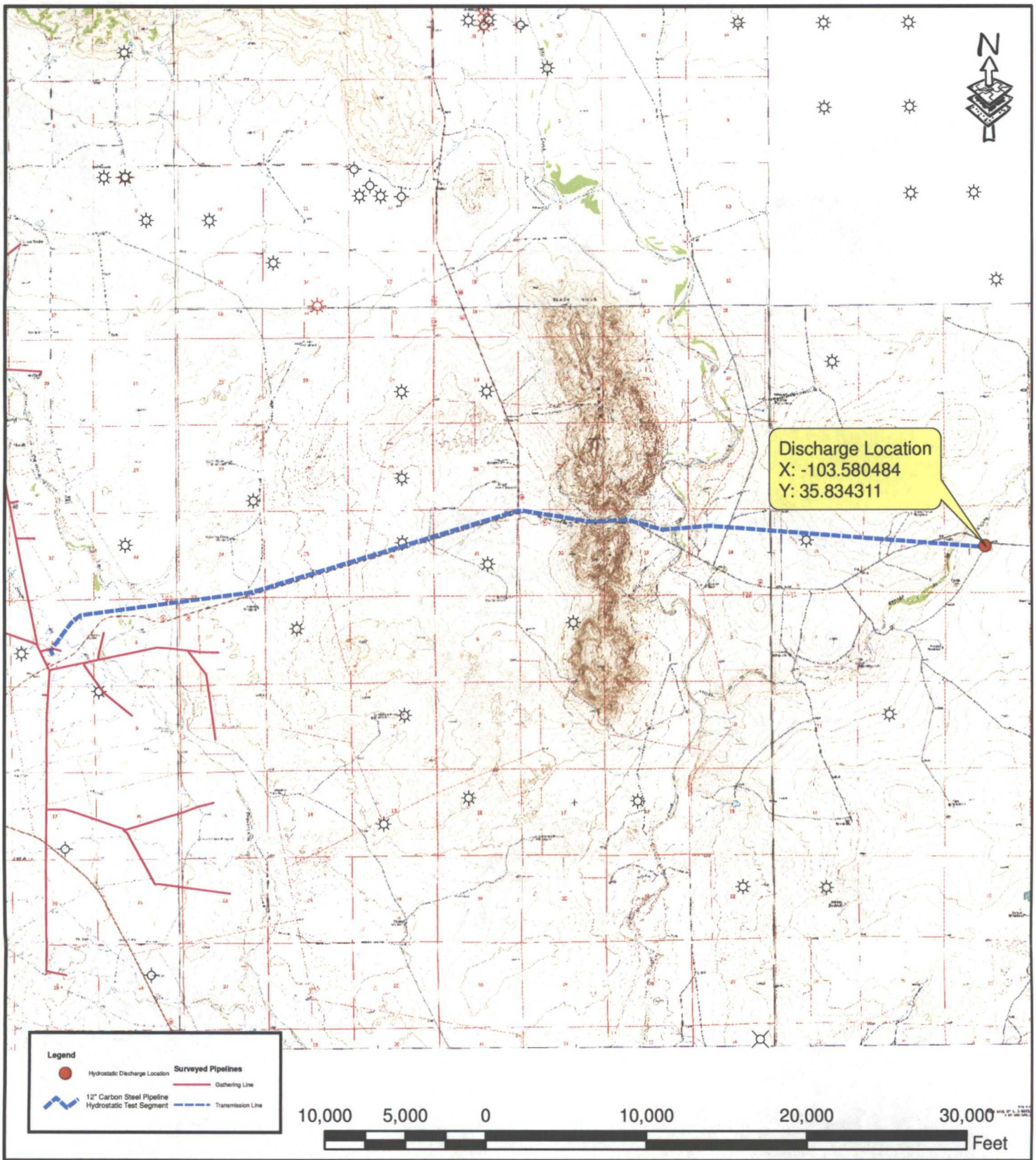
Michael D. Ford
Environmental Advisor

MDF WBDPIPETEST1LT DOC

Attachment

NEW MEXICO OIL CONSERVATION DIVISION
INFORMATION REQUIRED FOR NOTIFICATION OF INTENT TO DISCHARGE WATER USED FOR HYDROSTATIC TESTING
CARBON DIOXIDE TRANSMISSION LINE

Information Required	CO2 Transmission Line
Pipe ID	12 09
Type	Steel
Footage	60720
Gallons	362,113
BBL	8,622
(a) name and address of the proposed discharger	Hess Corporation HCR 72, Box 30 Mosquero, NM 87733
(b) the location of the discharge, including street address, and sufficient information to locate the facility with respect to current landmarks	11 5 miles east of the facility on Hwy 420 (Facility address 244 Bueyeros Hwy, Mosquero, NM 87733)
(c) legal description (Section/Township/Range) of the discharge location	Harding County, NM Section 31 T19N R32E
(d) maps (site specific and regional) indicating the location of pipelines to be tested and the proposed discharge location	See attached drawing "Discharge Location 5"
(e) demonstration of compliance to the following siting criteria or justification for any exceptions	–
i within 200 feet of a watercourse, lakebed, sinkhole or playa lake	No
ii within an existing wellhead protection area of 100-year floodplain	No
iii within, or within 500 feet of, a wetland	No
iv within the area overlying a subsurface mine	Not known
v within 500 feet from the nearest permanent residence, school, hospital, institution or church	No
(f) a brief description of the activities that produce the discharge	Hydrostatic testing of 11 5 miles of 12" diameter carbon steel pipe
(g) the method and location for collection and retention of fluids and solids	Discharge of the test water to be at east end of 12" steel line at the Rosebud tie-in through 200 mesh filters to contain any solids
(h) a brief description of best management practices to be implemented to contain the discharge onsite and to control erosion	After the water passes through the filters to catch solids it will then pass through straw bales surrounded by a silt fence to prevent erosion
(i) a request for approval of an alternative treatment, use, and/or discharge location (other than the original discharge site), if necessary	Not applicable
(j) a proposed hydrostatic test wastewater sampling plan	Water samples from source wells to be taken to approved lab for testing with results presented to Hess prior to hydro testing for approval, samples will be taken of the test discharge water and the source water
(k) a proposed method of disposal of fluids and solids after test completion, including closure of any pits, in case the water generated from test exceeds the standards set forth in Subsections A, B, and C of the 20 6 2 3103 NMAC	Filters and straw bales are to be hauled to an approved landfill and disposed of
(l) a brief description of the expected quality and volume of the discharge	Approx 362,000 gallons of non-potable water sourced from nearby water wells that could potentially have sand, NORM
(m) geological characteristics of the subsurface at the proposed discharge site	Surface soils to depths of 15 5 ft to 33 5 ft consist of stiff to hard sandy and silty clay, near surface soils are of moderate plasticity, the materials underlying the surface soils and extending to the full depth of exploration consisted of moderately hard to hard sandstone and siltstone bedrock, groundwater was not encountered in any brings at the time of exploration
(n) the depth to and total dissolved solids concentration of the ground water most likely to be affected by the discharge	Local ranchers have indicated groundwater present around 50 ft below surface
(o) identification and notification of landowners at and adjacent to the discharge and collection/retention site	W O Culbertson and Sons



REV	Date	By	Description	CHK
A	5/08	DM	Issue for Approval	ND

Project No. 11351

MUSTANG ENGINEERING, L.P.

HESS CORPORATION
U.S. ONSHORE PRODUCTION

Bravo Dome and West Bravo Dome Areas
Gathering System
Harding County — Hydrostatic Discharge Location 5 — New Mexico

Drawn By: DM	Date: 5/6/08	Drawing: D-WBD-7900-9099	REV. A
Checked By: ND	Date: 5/7/08		
	Approved: ND		

R:\Projects\11351\DRAWINGS\95-Environmental\Hydrostatic Discharge Drawing 5.mxd

May 19, 2008

RECEIVED
MAY 23 AM 10 09

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Mr. Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: FEF – WATER DISCHARGE PERMIT
PERMIT APPLICATIONS FEE PAYMENT
PIPELINE HYDROSTATIC TESTS
WEST BRAVO DOME PIPELINES

Dear Mr. Jones:

Attached please find Hess Corporation check #0001680101 in the amount of $300.00 to address payment of two pipeline hydrostatic test water discharge permit applications and one annual permission to discharge request filing fees.

The check is made out to the New Mexico Water Quality Management Fund as required.

If you should have any questions or require additional information, please feel free to contact me at (713) 609-4204.

Sincerely,

Michael D. Ford

Michael D. Ford
Environmental Advisor

MDF WBDPIPETESTFEELT DOC

DO NOT ACCEPT THIS CHECK UNLESS THE PINK LOCK & KEY ICONS FADE WHEN WARMED AND YOU CAN SEE A PENTAGON-SHAPED TRUE WATERMARK WHEN HELD TO THE LIGHT

HESS

HESS CORPORATION
HOUSTON, TEXAS

ACCOUNTS PAYABLE

CHASE MANHATTAN BANK
SYRACUSE, NY

CHECK NUMBER 0001680101

CHECK DATE	VENDOR NUMBER
05/16/08	20000015

AMOUNT OF CHECK
********$300.00

PAY *Three hundred and 00/100 Dollars*

CHECK OF $100,000.00 OR OVER MUST BE COUNTERSIGNED

TO THE ORDER OF

NEW MEXICO WATER QUALITY MGM FUND
C/O NEW MEXICO OIL CONSERVATION DIV
1220 S SAINT FRANCIS DR
SANTA FE, NM 87505

⑈0001680101⑈ ⑆021309379⑆ 601294754⑈

HESS CORPORATION
500 Dallas Street
Houston, TX 77002

July 22, 2008

NEXT DAY DELIVERY

Mr. Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: FEF – WATER DISCHARGE PERMIT
NOTICE OF INTENT
PIPELINE HYDROSTATIC TEST
CO2 TRANSMISSION LINE
WEST BRAVO DOME

Dear Mr. Jones:

Hess Corporation submitted a request on 5/14/08 for an individual permit to hydrostatically test and discharge water from a new carbon dioxide (CO2) transmission line in the West Bravo Dome field located in northeast New Mexico. Hess Corporation would like to rescind the original application and reapply with this request.

Summary of Activities
Hess Corporation's pipeline construction contractor will hydrostatically test the West Bravo Dome carbon dioxide (CO2) transmission line located in Harding County, New Mexico. The 11.5 miles of new 12 inch steel pipe will be hydrostatically tested using approximately 362,000 gallons of water from the Girard Well. This water has been analyzed for the constituents identified in New Mexico Administrative Code (NMAC) 20.6.2.3103 (A), (B) and (C). A copy of these analyses is attached. With the exception of fluoride at 2.9 mg/l, compliance with the New Mexico standards is shown. It should be noted the EPA's current drinking water standard's maximum allowable fluoride concentration is 4.0 mg/l.

Name and Address of Discharger
Hess Corporation
HCR 72, Box 30
Mosquero, NM 87733

Location and Legal Description of Discharge Location
Driving directions to the discharge site follow: From the intersection of State Highway 102 and Highway 420 in Harding County, go east on Highway 420 (caliche highway) for 6 miles, turn right into Oxy's Sheep Mountain Pipeline Station on the edge of the road. The discharge point is in an area just southwest of and adjacent to Oxy's site, located near the center of Section 31, T-19-N, R-32-E.

The test water will remain in a lined and fenced temporary storage pond while expedited analyses are completed. Once the analyses have been completed and approved by the OCD, the water will be discharged. The water will be released in a controlled rate through hay bales to prevent erosion.

Maps

The following maps are included or referenced in this application.

- Map showing location of transmission line and discharge location
- Aerial map of discharge site noting closest watercourse
- Land ownership map
- Geologic map of New Mexico (referenced)
- US Dept. of Agriculture Natural Resources Conservation Service soils map (referenced)

Demonstration of Compliance with Siting Criteria

See attached Discharge Site Map and Certification of Compliance with Siting Criteria completed by the Hess Operations Team Leader.

Compliance with OCD's siting criteria is met because:

1. Hydrostatic test water will not be discharged within 200 feet of any watercourse (see aerial discharge site map)
2. The discharge site is not located within an existing wellhead protection area (see attached e-mail confirmation from Mr. Darren Padilla with the New Mexico Environment Department). The discharge site is not located within a 100-year floodplain (see attached document from the FEMA stating there are no flood maps issued for Harding County).
3. There are no wetlands within 500 ft (see aerial discharge site map)
4. Hess Corporation contacted the New Mexico Bureau of Mines and Minerals about subsurface mines in the area. An email verification was submitted to Hess that there are no mines in the area (see attached email from Bureau of Mines)
5. There are no residences, schools, hospitals, or churches within 500 feet (see aerial discharge site map).

Description of Activities

The new CO2 transmission line will be hydrostatically tested using approximately 362,000 gallons of water from the Girard Well. The line will be tested for at least four continuous hours at a pressure equal to 125 percent, or more, of the maximum operating pressure.

Method & Location for Collection and Retention of Fluids

A lined and barbed wire fenced temporary holding pond will be used to contain the test water prior to discharge. The pond's inside dimensions will be 125 feet by 150 feet by 4 feet, with a capacity of 9,500 barrels. The test water will be transferred from the pipe into the temporary holding pond by connecting a hose from the pipe directly to the temporary holding pond. The pipeline construction contractor will use plastic liners or drip trays under hose and valve connections to collect drips and leaks when transferring water.

BMPs to Contain Discharge On-Site & Control Erosion

Water will be pumped from the temporary holding pond onto adjacent lands owned by W. O. Culbertson and Sons, Inc. The water will be released in a controlled rate through hay bales so that erosion does not occur.

Request for Alternate Treatment/Disposal

If the hydrostatic test water does not meet conditions for discharge, Hess will make arrangements for disposal of the water into a permitted injection well or treat the water to NMOCD specification for discharge.

Hydrostatic Test Water Sampling Plan

The hydrostatic test water sample(s) will be collected from the temporary holding pond following removal of the water from the transmission line. The water will be analyzed for the constituents identified in NMAC 20.6.2.3103 (A)(B(C). Upon receipt of the analytical results, Hess will submit them to the OCD for approval to discharge.

Disposal of Fluids & Solids – Pond Closure

The water from the hydrostatic test will be pumped from the temporary holding pond onto adjacent lands owned by W. O. Culbertson and Sons, Inc. Solids, if any, remaining in the pond will be analyzed for the following constituents before closure activities:

1. Benzene
2. Total BTEX.
3. TPH
4. GRO and DRO combined fraction
5. Chlorides

In the event that the solids analyses exceeds the limits established for in-place burial per NMAC 19.15.17.13, the solids will be removed for treatment/disposal in a state approved landfarm/landfill. The plastic pit liner will be removed and disposed of in a state approved landfill. The pond will be bulldozed in and the impacted area reseeded.

Expected Quality & Volume of Discharge

The expected volume of the hydrostatic test discharge is approximately 362,000 gallons. The water quality is expected to be comparable to the quality of the Girard Well water and will be analyzed to determine if it meets WQCC standards.

Geological Characteristics of Subsurface at Discharge Site

According to the NM Bureau of Mines and Mineral resources geologic map, the discharge site is within the Sierra Grande Uplift in the Jurassic Age Entrada Sandstone. Soils in the area are classed in the Mansker-Portales association, gently sloping. The soil consists of a fine sandy loam from 0 to 10 inches in depth and a loam from 10 to 60 inches in depth. The soils parent material is a calcareous alluvium derived from igneous and sedimentary rock. The NM Bureau of Mines and Mineral geologic map may be found at: http://geoinfo.nmt.edu/publications/maps/geologic/home.html. Information about soils was obtained from the NRCS web soil survey website at: http://websoilsurvey.nrcs.usda.gov/app/.

Depth & TDS Concentration of Ground Water Most Likely to be Affected by Discharge

The New Mexico Office of the State Engineer iWATERS Database was queried for information on the average depth to water for the proposed discharge site. The system returned no records found (see attached printout). Local ranchers report the depth to groundwater as being approximately 50 feet. Per the USGS Ground Water Atlas, the total dissolved solids concentration of water in the High Plains Aquifer in eastern New Mexico is generally less than 500 mg/l (see http://pubs/usgs/gov/ha/ha730/ch_c/C-text5.html.

ID of Landowner at and Adjacent to Discharge and Collection/Retention Site

A map is provided showing the landownership of the underlying and adjacent property owner from the proposed discharge site. W. O. Culbertson and Sons, Inc. is the underlying and adjacent landowner. Discussions are ongoing with Joe Culbertson and Kathy Whatley (W. Culbertson's children) regarding the project and the temporary holding pond.

Closing

In the event of a release associated with project activities, Hess will comply with OCD's Release Notification and Corrective Action regulation NMAC 19.15.3.116 to remediate the spill as soon as possible.

A check for $100 was submitted with our rescinded application. Therefore, we are not submitting a filing fee with this application. If an additional filing fee is required, please let me know.

Once OCD rules this application as administratively complete, Hess will provide notice of the permit application in the Quay County Sun newspaper following requirements in NMAC 20.6.2.3108. In addition, a sign will be placed at the location of the discharge and at the post office or grocery store in Mosquero, New Mexico providing a synopsis of the public notice.

If you should have any questions or require additional information, please feel free to contact me at (713) 609-4204.

Sincerely,

Michael D. Ford

Michael D. Ford
Environmental Advisor

MDF.WBDPIPETEST1LTREV DOC

Attachments

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Monday, July 14, 2008

Michael Ford
Hess Corporation
HCR72 Box 30
Mosquero, NM 87733

TEL: (575) 650-0316
FAX

RE: Hess West Bravo Dome

Order No.: 0806231

Dear Michael Ford:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 6/16/2008 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

NM Lab # NM9425
AZ license # AZ0682
ORELAP Lab # NM100001

4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109
505 345.3975 ■ Fax 505.345.4107
www.hallenvironmental.com

Hall Environmental Analysis Laboratory, Inc.

Date: *14-Jul-08*

CLIENT:	Hess Corporation	**Client Sample ID:**	Girard Well
Lab Order:	0806231	**Collection Date:**	6/16/2008 7:00:00 AM
Project:	Hess West Bravo Dome	**Date Received:**	6/16/2008
Lab ID:	0806231-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 504.1: EDB						Analyst: **JAT**
1,2-Dibromoethane	ND	0 010		µg/L	1	6/19/2008 5:15.44 PM
Surr: 1,2,3-Trichloropropane	71 9	54.9-135		%REC	1	6/19/2008 5·15:44 PM
EPA METHOD 8082: PCB'S						Analyst: **JMP**
Aroclor 1016	ND	1 0		µg/L	1	6/26/2008 8·53:39 AM
Aroclor 1221	ND	5 0		µg/L	1	6/26/2008 8:53:39 AM
Aroclor 1232	ND	1.0		µg/L	1	6/26/2008 8:53:39 AM
Aroclor 1242	ND	1.0		µg/L	1	6/26/2008 8:53:39 AM
Aroclor 1248	ND	1.0		µg/L	1	6/26/2008 8:53:39 AM
Aroclor 1254	ND	1.0		µg/L	1	6/26/2008 8:53:39 AM
Aroclor 1260	ND	1.0		µg/L	1	6/26/2008 8:53·39 AM
Surr: Decachlorobiphenyl	68.4	23.9-124		%REC	1	6/26/2008 8:53:39 AM
Surr: Tetrachloro-m-xylene	79.2	28.1-139		%REC	1	6/26/2008 8:53:39 AM
EPA METHOD 8310: PAHS						Analyst: **DMF**
Naphthalene	ND	2.0		µg/L	1	6/30/2008 3:01:27 PM
1-Methylnaphthalene	ND	2.0		µg/L	1	6/30/2008 3:01:27 PM
2-Methylnaphthalene	ND	2 0		µg/L	1	6/30/2008 3:01:27 PM
Acenaphthylene	ND	2.5		µg/L	1	6/30/2008 3:01:27 PM
Acenaphthene	ND	5.0		µg/L	1	6/30/2008 3:01:27 PM
Fluorene	ND	0.80		µg/L	1	6/30/2008 3:01:27 PM
Phenanthrene	ND	0.60		µg/L	1	6/30/2008 3.01:27 PM
Anthracene	ND	0.60		µg/L	1	6/30/2008 3:01:27 PM
Fluoranthene	ND	0.30		µg/L	1	6/30/2008 3:01:27 PM
Pyrene	ND	0.30		µg/L	1	6/30/2008 3:01:27 PM
Benz(a)anthracene	ND	0.070		µg/L	1	6/30/2008 3:01:27 PM
Chrysene	ND	0.20		µg/L	1	6/30/2008 3.01.27 PM
Benzo(b)fluoranthene	ND	0.10		µg/L	1	6/30/2008 3:01:27 PM
Benzo(k)fluoranthene	ND	0.070		µg/L	1	6/30/2008 3:01:27 PM
Benzo(a)pyrene	ND	0.070		µg/L	1	6/30/2008 3:01:27 PM
Dibenz(a,h)anthracene	ND	0.070		µg/L	1	6/30/2008 3.01.27 PM
Benzo(g,h,i)perylene	ND	0.080		µg/L	1	6/30/2008 3:01:27 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	6/30/2008 3·01:27 PM
Surr: Benzo(e)pyrene	67.3	38.3-106		%REC	1	6/30/2008 3:01:27 PM
EPA METHOD 300.0: ANIONS						Analyst: **SLB**
Fluoride	2.9	0.10		mg/L	1	6/16/2008 9:43:40 PM
Chloride	33	0.10		mg/L	1	6/16/2008 9:43 40 PM
Nitrogen, Nitrate (As N)	2.0	0.10		mg/L	1	6/16/2008 9:43:40 PM
Sulfate	60	0.50		mg/L	1	6/16/2008 9:43:40 PM
EPA METHOD 7470: MERCURY						Analyst: **SNV**

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *14-Jul-08*

CLIENT:	Hess Corporation	**Client Sample ID:**	Girard Well
Lab Order:	0806231	**Collection Date:**	6/16/2008 7:00:00 AM
Project:	Hess West Bravo Dome	**Date Received:**	6/16/2008
Lab ID:	0806231-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 7470: MERCURY						Analyst. SNV
Mercury	ND	0.00020		mg/L	1	7/7/2008 2:49:21 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: TES
Aluminum	ND	0.020		mg/L	1	7/8/2008 3:07:16 PM
Barium	0.048	0.010		mg/L	1	7/8/2008 3:07:16 PM
Boron	0.24	0.040		mg/L	1	7/8/2008 3:07:16 PM
Cadmium	ND	0.0020		mg/L	1	7/8/2008 3:07:16 PM
Chromium	ND	0.0060		mg/L	1	6/23/2008 1:32:28 PM
Cobalt	ND	0.0060		mg/L	1	7/8/2008 3:07:16 PM
Copper	ND	0.0060		mg/L	1	7/8/2008 3:07:16 PM
Iron	ND	0.050		mg/L	1	7/8/2008 3:07:16 PM
Lead	ND	0.0050		mg/L	1	6/23/2008 1:32:28 PM
Manganese	0.0021	0.0020		mg/L	1	7/8/2008 3:07:16 PM
Molybdenum	ND	0.0080		mg/L	1	7/8/2008 3:07:16 PM
Nickel	ND	0.010		mg/L	1	7/8/2008 3:07:16 PM
Silver	ND	0.0050		mg/L	1	7/8/2008 3:07:16 PM
Zinc	ND	0.020		mg/L	1	7/8/2008 3:07:16 PM
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
Toluene	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
Ethylbenzene	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
Naphthalene	ND	2.0		µg/L	1	6/19/2008 10:41:23 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	6/19/2008 10:41:23 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	6/19/2008 10:41:23 PM
Acetone	ND	10		µg/L	1	6/19/2008 10:41:23 PM
Bromobenzene	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
Bromodichloromethane	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
Bromoform	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
Bromomethane	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
2-Butanone	ND	10		µg/L	1	6/19/2008 10:41:23 PM
Carbon disulfide	ND	10		µg/L	1	6/19/2008 10:41:23 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
Chlorobenzene	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
Chloroethane	ND	2.0		µg/L	1	6/19/2008 10:41:23 PM
Chloroform	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
Chloromethane	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *14-Jul-08*

CLIENT:	Hess Corporation	**Client Sample ID:**	Girard Well
Lab Order:	0806231	**Collection Date:**	6/16/2008 7:00:00 AM
Project:	Hess West Bravo Dome	**Date Received:**	6/16/2008
Lab ID:	0806231-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
2-Chlorotoluene	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
4-Chlorotoluene	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
cis-1,2-DCE	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/19/2008 10:41:23 PM
Dibromochloromethane	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
Dibromomethane	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/19/2008 10:41 23 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
1,1-Dichloroethane	ND	1 0		µg/L	1	6/19/2008 10:41:23 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	6/19/2008 10:41:23 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
2-Hexanone	ND	10		µg/L	1	6/19/2008 10:41:23 PM
Isopropylbenzene	ND	1 0		µg/L	1	6/19/2008 10:41:23 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	6/19/2008 10:41:23 PM
Methylene Chloride	ND	3.0		µg/L	1	6/19/2008 10:41:23 PM
n-Butylbenzene	ND	1.0		µg/L	1	6/19/2008 10:41 23 PM
n-Propylbenzene	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
sec-Butylbenzene	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
Styrene	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
tert-Butylbenzene	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/19/2008 10:41:23 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
trans-1,2-DCE	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/19/2008 10:41:23 PM
Vinyl chloride	ND	1.0		µg/L	1	6/19/2008 10:41:23 PM
Xylenes, Total	ND	1.5		µg/L	1	6/19/2008 10:41:23 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *14-Jul-08*

CLIENT:	Hess Corporation	**Client Sample ID:**	Girard Well
Lab Order:	0806231	**Collection Date:**	6/16/2008 7:00:00 AM
Project:	Hess West Bravo Dome	**Date Received:**	6/16/2008
Lab ID:	0806231-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **HL**
Surr: 1,2-Dichloroethane-d4	94.1	68.1-123		%REC	1	6/19/2008 10:41:23 PM
Surr: 4-Bromofluorobenzene	93.4	53.2-145		%REC	1	6/19/2008 10:41:23 PM
Surr: Dibromofluoromethane	96.6	68.5-119		%REC	1	6/19/2008 10:41:23 PM
Surr: Toluene-d8	97.8	64-131		%REC	1	6/19/2008 10:41:23 PM
EPA METHOD 9067: TOTAL PHENOLICS						Analyst: **JAT**
Phenolics, Total Recoverable	ND	2.5		µg/L	1	6/19/2008
SM4500-H+B: PH						Analyst: **KMS**
pH	8.26	0.1		pH units	1	6/17/2008
SM 2540C TOTAL DISSOLVED SOLIDS						Analyst: **KMS**
Total Dissolved Solids	360	20		mg/L	1	6/20/2008

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Benchmark Analytics, Inc.

4777 Saucon Creek Road
Center Valley, PA 18034
Phone: (610) 974-8100
Fax: (610) 974-8104

Work Order: 08062265

SEND DATA TO:

NAME: Andy Freeman
COMPANY: Hall Environmental Analysis Lab, Inc.
ADDRESS: 4901 Hawkins NE, Suite D
Albuquerque, NM 87109-4372

PHONE: (505) 345-3975
FAX: (505) 345-4107

WO#: 08062265
PAGE: 1 of 1
PO#:
PWS ID#

TEST REPORT

0806231

RECEIVED FOR LAB BY: CMM DATE: 06/17/2008 9:00

SAMPLE: **0806231-01G, Girard Well** Lab ID: 08062265-001A Grab
SAMPLED BY: Client Sample Time. 06/16/2008 7:00

Test	Result	Method	RL	Analysis Start	Analysis End	Analyst *
Arsenic	0.0067 mg/L	EPA 200.8	0.01	06/18/08 14:00	06/20/08	JRA-CV
Selenium	0.0066 mg/L	EPA 200.8	0.05	06/18/08 14:00	06/20/08	JRA-CV
Uranium	9.08 µg/L	EPA 200.8	30	06/18/08 14:00	06/20/08	JRA-CV
Uranium	6.08 pCi/L	EPA 200.8		06/18/08 14:00	06/20/08	JRA-CV

SAMPLE: **0806231-01H, Girard Well** Lab ID: 08062265-001D Grab
SAMPLED BY: Client Sample Time. 06/16/2008 7:00

Test	Result	Method	RL	Analysis Start	Analysis End	Analyst *
Cyanide	< 0.005 mg/L	SM#20 4500 CN C,E	0.2	06/23/08 10:30	06/23/08	LNP-CV

REMARKS:

The above test procedures meet all the requirements of NELAC and relate only to these samples.
* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

MANAGER _____ DATE: 7/11/2008

BENCHMARK ANALYTICS, INC.
4777 Saucon Creek Road
Center Valley, PA 18034-9004

PHONE (610) 974-8100
FAX (610) 974-8104

Work Order: 08062265

SEND DATA TO:

NAME: Andy Freeman
COMPANY: Hall Environmental Analysis Lab, Inc.
ADDRESS: 4901 Hawkins NE, Suite D
Albuquerque, NM 87109-4372

PHONE: (505) 345-3975
FAX: (505) 345-4107

WO#: 08062265
PAGE: 1 of 1
PO#:
PWS ID#

TEST REPORT

0806231

RECEIVED FOR LAB BY: CMM DATE: 06/17/2008 9:00

SAMPLE: **0806231-01H, Girard Well** Lab ID: 08062265-001B Grab
SAMPLED BY: Client Sample Time 06/16/2008 7:00

Test	Result	Uncert.	MDA	Units	Method	MCL	Analysis Start	Analysis End	Analyst *
Radium-226	0.43	± 0.12	0.69	pCi/L	EPA 903.0		06/20/08 10:20	07/01/08	BH-CV

SAMPLE: **0806231-01H, Girard Well** Lab ID: 08062265-001C Grab
SAMPLED BY: Client Sample Time 06/16/2008 7:00

Test	Result	Uncert.	MDA	Units	Method	MCL	Analysis Start	Analysis End	Analyst *
Radium-228	1.55	± 0.60	0.66	pCi/L	EPA 904.0		07/08/08 8:30	07/10/08	CCA-CV

REMARKS:
The above test procedures meet all the requirements of NELAC and relate only to these samples.
* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

MANAGER _____ DATE: 7/11/2008

CLIENT: Hall Environmental Analysis Lab, Inc.
Work Order: 08062265
Project: 0806231

ANALYTICAL QC SUMMARY REPORT

TestCode: CN_TT_4500E_D

Sample ID: 08062265-001DDUP	SampType: DUP	TestCode: CN_TT_4500	Units: mg/L	Prep Date:	RunNo: 24042
Client ID: 0806231-01H, Girard Wel	Batch ID: R24042	TestNo: A4500-CN-E		Analysis Date: 6/23/2008	SeqNo: 452195

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	< 0.005	0.005						0	0	10	

Sample ID: 08062268-001DMS	SampType: MS	TestCode: CN_TT_4500	Units: mg/L	Prep Date:	RunNo: 24042
Client ID: ZZZZZZ	Batch ID: R24042	TestNo: A4500-CN-E		Analysis Date: 6/23/2008	SeqNo: 452197

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.039	0.005	0.05000	0	78.0	90	110				S

Qualifiers:
B Analyte detected in the associated Method Blank
D Limit of detection increased due to matrix interference an
E Value above quantitation range
J Analyte reported below quantitation limits
L Value above calibration range but within annually verifie
LBP Lead based paint is defined as a paint with greater thar
PHQC Sample pH was >2. Due to matrix effects, not all quality
Q Due to matrix effects, not all quality control parameters
R RPD outside accepted recovery limits

CLIENT: Hall Environmental Analysis Lab, Inc.
Work Order: 08062265
Project: 0806231

ANALYTICAL QC SUMMARY REPORT

TestCode: ME_ICPMS_D

Sample ID: MBLK ED 061808 E	SampType: MBLK	TestCode: ME_ICPMS_	Units: mg/L	Prep Date:	RunNo: 23901
Client ID: PBW	Batch ID: ED 061808 E	TestNo: E200.8		Analysis Date: 6/18/2008	SeqNo: 449759

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 0.0005	0.0005									

Sample ID: 08061692-001D DUP	SampType: DUP	TestCode: ME_ICPMS_	Units: mg/L	Prep Date:	RunNo: 23901
Client ID: ZZZZZZ	Batch ID: ED 061808 E	TestNo: E200.8		Analysis Date: 6/12/2008	SeqNo: 449762

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0034	0.0005						0.003455	1.00	20	

Sample ID: 08061692-001D MS	SampType: MS	TestCode: ME_ICPMS_	Units: mg/L	Prep Date:	RunNo: 23901
Client ID: ZZZZZZ	Batch ID: ED 061808 E	TestNo: E200.8		Analysis Date: 6/12/2008	SeqNo: 449763

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0055	0.0005	0.002020	0.003455	103	70	130				

Sample ID: MBLK ED 061808 E	SampType: MBLK	TestCode: ME_ICPMS_	Units: mg/L	Prep Date:	RunNo: 23993
Client ID: PBW	Batch ID: ED 061808 E	TestNo: E200.8		Analysis Date: 6/18/2008	SeqNo: 451224

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 0.0005	0.0005									
Selenium	< 0.0030	0.0030									

Sample ID: 08061952-001A DUP	SampType: DUP	TestCode: ME_ICPMS_	Units: mg/L	Prep Date:	RunNo: 23993
Client ID: ZZZZZZ	Batch ID: ED 061808 E	TestNo: E200.8		Analysis Date: 6/18/2008	SeqNo: 451229

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 0.0005	0.0005						0	0	20	
Selenium	< 0.0030	0.0030						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Limit of detection increased due to matrix interference an	E	Value above quantitation range
J	Analyte reported below quantitation limits	L	Value above calibration range but within annually verifie	LBP	Lead based paint is defined as a paint with greater thar
PHQC	Sample pH was >2. Due to matrix effects, not all quality	Q	Due to matrix effects, not all quality control parameters	R	RPD outside accepted recovery limits

CLIENT: Hall Environmental Analysis Lab, Inc.
Work Order: 08062265
Project: 0806231

ANALYTICAL QC SUMMARY REPORT

TestCode: ME_ICPMS_D

Sample ID: 08061952-001A MS	SampType: MS	TestCode: ME_ICPMS_	Units: mg/L	Prep Date:	RunNo: 23993
Client ID: ZZZZZZ	Batch ID: ED 061808 E	TestNo: E200.8		Analysis Date: 6/18/2008	SeqNo: 451230

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0021	0.0005	0.002020	0	103	70	130				
Selenium	0.0231	0.0030	0.02222	0	104	70	130				

Qualifiers:
B Analyte detected in the associated Method Blank
D Limit of detection increased due to matrix interference an
E Value above quantitation range
J Analyte reported below quantitation limits
L Value above calibration range but within annually verifie
LBP Lead based paint is defined as a paint with greater thar
PHQC Sample pH was >2. Due to matrix effects, not all quality
Q Due to matrix effects, not all quality control parameters
R RPD outside accepted recovery limits

CLIENT: Hall Environmental Analysis Lab, Inc.
Work Order: 08062265
Project: 0806231

ANALYTICAL QC SUMMARY REPORT

TestCode: RA226_903.0

Sample ID: BLANK	SampType: MBLK	TestCode: RA226_903.0	Units: pCi/L	Prep Date:	RunNo: 24520
Client ID: PBW	Batch ID: R24520	TestNo: E903.0		Analysis Date: 6/20/2008	SeqNo: 462185

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	0.08										

Sample ID: LCS	SampType: LCS	TestCode: RA226_903.0	Units: pCi/L	Prep Date:	RunNo: 24520
Client ID: LCSW	Batch ID: R24520	TestNo: E903.0		Analysis Date: 6/20/2008	SeqNo: 462186

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	15.71		10.66	0	147	74	126				S

Sample ID: LCS DUP 1	SampType: LCSD	TestCode: RA226_903.0	Units: pCi/L	Prep Date:	RunNo: 24520
Client ID: LCSS02	Batch ID: R24520	TestNo: E903.0		Analysis Date: 6/20/2008	SeqNo: 462187

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	12.08		10.66	0	113	74	126		26.0	0	

Sample ID: LCS DUP 2	SampType: LCSD	TestCode: RA226_903.0	Units: pCi/L	Prep Date:	RunNo: 24520
Client ID: LCSS02	Batch ID: R24520	TestNo: E903.0		Analysis Date: 6/20/2008	SeqNo: 462188

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	13.68		10.66	0	128	74	126		14.0	0	S

Sample ID: LCS-RC	SampType: LCS	TestCode: RA226_903.0	Units: pCi/L	Prep Date:	RunNo: 24520
Client ID: LCSW	Batch ID: R24520	TestNo: E903.0		Analysis Date: 6/20/2008	SeqNo: 462190

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	13.83		10.66	0	130	74	126				S

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Limit of detection increased due to matrix interference an	E	Value above quantitation range
J	Analyte reported below quantitation limits	L	Value above calibration range but within annually verifie	LBP	Lead based paint is defined as a paint with greater than
PHQC	Sample pH was >2. Due to matrix effects, not all quality	Q	Due to matrix effects, not all quality control parameters	R	RPD outside accepted recovery limits

CLIENT: Hall Environmental Analysis Lab, Inc.
Work Order: 08062265
Project: 0806231

ANALYTICAL QC SUMMARY REPORT

TestCode: RA226_903.0

Sample ID: LCS DUP 2 RC	SampType: LCSD	TestCode: RA226_903.0	Units: pCi/L	Prep Date:	RunNo: 24520
Client ID: LCSS02	Batch ID: R24520	TestNo: E903.0		Analysis Date: 6/20/2008	SeqNo: 462191

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	12.43		10.66	0	117	74	126				

11

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Limit of detection increased due to matrix interference an	E	Value above quantitation range
J	Analyte reported below quantitation limits	L	Value above calibration range but within annually verifie	LBP	Lead based paint is defined as a paint with greater thar
PHQC	Sample pH was >2. Due to matrix effects, not all quality	Q	Due to matrix effects, not all quality control parameters	R	RPD outside accepted recovery limits

CLIENT: Hall Environmental Analysis Lab, Inc.
Work Order: 08062265
Project: 0806231

ANALYTICAL QC SUMMARY REPORT

TestCode: RA228_904.0

Sample ID: LCS	SampType: LCS	TestCode: RA228_904.0	Units: pCi/L	Prep Date:	RunNo: 24838
Client ID: LCSW	Batch ID: R24838	TestNo: E904.0		Analysis Date: 7/8/2008	SeqNo: 469064

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	11.39		11.42	0	100	57	143				

Sample ID: BLANK-RC	SampType: MBLK	TestCode: RA228_904.0	Units: pCi/L	Prep Date:	RunNo: 24838
Client ID: PBW	Batch ID: R24838	TestNo: E904.0		Analysis Date: 7/8/2008	SeqNo: 469069

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	0.17										

12

Qualifiers:
B Analyte detected in the associated Method Blank
D Limit of detection increased due to matrix interference an
E Value above quantitation range
J Analyte reported below quantitation limits
L Value above calibration range but within annually verifie
LBP Lead based paint is defined as a paint with greater thar
PHQC Sample pH was >2. Due to matrix effects, not all quality
Q Due to matrix effects, not all quality control parameters
R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Hess Corporation
Project: Hess West Bravo Dome **Work Order:** 0806231

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions									
Sample ID: MB		*MBLK*			Batch ID: **R28957**		Analysis Date:	6/16/2008 10:07:20 AM	
Fluoride	ND	mg/L	0.10						
Chloride	ND	mg/L	0.10						
Nitrogen, Nitrate (As N)	ND	mg/L	0.10						
Sulfate	ND	mg/L	0.50						
Sample ID: LCS		*LCS*			Batch ID: **R28957**		Analysis Date:	6/16/2008 10:24:44 AM	
Fluoride	0.5085	mg/L	0.10	102	90	110			
Chloride	5.084	mg/L	0.10	102	90	110			
Nitrogen, Nitrate (As N)	2.598	mg/L	0.10	104	90	110			
Sulfate	10.37	mg/L	0.50	104	90	110			
Method: EPA Method 9067: Total Phenolics									
Sample ID: MB-16235		*MBLK*			Batch ID: **16267**		Analysis Date:	6/19/2008	
Phenolics, Total Recoverable	ND	µg/L	2.5						
Sample ID: LCS-16235		*LCS*			Batch ID: **16267**		Analysis Date:	6/19/2008	
Phenolics, Total Recoverable	26.08	µg/L	2.5	130	51.7	133			
Sample ID: LCSD-16235		*LCSD*			Batch ID: **16267**		Analysis Date:	6/19/2008	
Phenolics, Total Recoverable	25.48	µg/L	2.5	127	51.7	133	2.33	0	
Method: EPA Method 504.1: EDB									
Sample ID: MB-16525		*MBLK*			Batch ID: **16252**		Analysis Date:	6/19/2008 1.10.14 PM	
1,2-Dibromoethane	ND	µg/L	0 010						
Sample ID: LCS-16525		*LCS*			Batch ID: **16252**		Analysis Date:	6/19/2008 1:22:58 PM	
1,2-Dibromoethane	0.1200	µg/L	0.010	120	70	130			
Sample ID: LCSD-16525		*LCSD*			Batch ID: **16252**		Analysis Date:	6/19/2008 1:35:47 PM	
1,2-Dibromoethane	0.1230	µg/L	0 010	123	70	130	2.47	13.5	
Method: EPA Method 8082: PCB's									
Sample ID: MB-16232		*MBLK*			Batch ID. **16232**		Analysis Date:	6/25/2008 9.27:06 PM	
Aroclor 1016	ND	µg/L	1.0						
Aroclor 1221	ND	µg/L	5.0						
Aroclor 1232	ND	µg/L	1.0						
Aroclor 1242	ND	µg/L	1.0						
Aroclor 1248	ND	µg/L	1.0						
Aroclor 1254	ND	µg/L	1.0						
Aroclor 1260	ND	µg/L	1 0						
Sample ID: LCS-16232		*LCS*			Batch ID: **16232**		Analysis Date:	6/25/2008 10:15:40 PM	
Aroclor 1016	1.888	µg/L	1.0	37.8	27.4	132			
Aroclor 1260	2.680	µg/L	1.0	53.6	47.6	119			
Sample ID: LCSD-16232		*LCSD*			Batch ID: **16232**		Analysis Date.	6/25/2008 11:04:50 PM	
Aroclor 1016	2.844	µg/L	1.0	56.9	27.4	132	40.4	45.7	
Aroclor 1260	2.960	µg/L	1.0	59.2	47.6	119	9.93	30	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Hess Corporation
Project: Hess West Bravo Dome **Work Order:** 0806231

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8310: PAHs									
Sample ID: MB-16218		*MBLK*			Batch ID: **16218**		Analysis Date:	6/30/2008 12:39:04 PM	
Naphthalene	ND	µg/L	2.0						
1-Methylnaphthalene	ND	µg/L	2.0						
2-Methylnaphthalene	ND	µg/L	2.0						
Acenaphthylene	ND	µg/L	2.5						
Acenaphthene	ND	µg/L	5.0						
Fluorene	ND	µg/L	0.80						
Phenanthrene	ND	µg/L	0.60						
Anthracene	ND	µg/L	0.60						
Fluoranthene	ND	µg/L	0.30						
Pyrene	ND	µg/L	0.30						
Benz(a)anthracene	ND	µg/L	0.070						
Chrysene	ND	µg/L	0.20						
Benzo(b)fluoranthene	ND	µg/L	0.10						
Benzo(k)fluoranthene	ND	µg/L	0 070						
Benzo(a)pyrene	ND	µg/L	0.070						
Dibenz(a,h)anthracene	ND	µg/L	0.070						
Benzo(g,h,i)perylene	ND	µg/L	0.080						
Indeno(1,2,3-cd)pyrene	ND	µg/L	0.080						
Sample ID: LCS-16218		*LCS*			Batch ID. **16218**		Analysis Date.	6/30/2008 1.27:04 PM	
Naphthalene	14.31	µg/L	2.0	35.8	31.5	90.7			
1-Methylnaphthalene	14.91	µg/L	2 0	37.2	32.5	93.3			
2-Methylnaphthalene	14.20	µg/L	2.0	35.5	32 8	89.6			
Acenaphthylene	15.51	µg/L	2.5	38.7	37.8	92.4			
Acenaphthene	16.75	µg/L	5 0	41 9	38.6	93.9			
Fluorene	1.850	µg/L	0.80	46.1	38	95.5			
Phenanthrene	1.160	µg/L	0.60	50.2	32 9	107			
Anthracene	1.060	µg/L	0.60	52.7	35.2	98.3			
Fluoranthene	2.110	µg/L	0 30	52.6	38 4	104			
Pyrene	1.900	µg/L	0.30	47 4	37 1	102			
Benz(a)anthracene	0.1700	µg/L	0.070	42.4	33.7	101			
Chrysene	0.9700	µg/L	0 20	48.3	35.2	96.1			
Benzo(b)fluoranthene	0.2400	µg/L	0 10	47.9	33.6	94.2			
Benzo(k)fluoranthene	0.1200	µg/L	0.070	44 0	25.4	110			
Benzo(a)pyrene	0.1200	µg/L	0.070	47.8	26.9	102			
Dibenz(a,h)anthracene	0.2400	µg/L	0.070	47.9	40.7	92.1			
Benzo(g,h,i)perylene	0.2400	µg/L	0.080	48 0	24.3	109			
Indeno(1,2,3-cd)pyrene	0.5020	µg/L	0.080	50.1	42 6	99.9			
Sample ID: LCSD-16218		*LCSD*			Batch ID: **16218**		Analysis Date:	6/30/2008 2:15:04 PM	
Naphthalene	23.20	µg/L	2.0	58 0	31.5	90.7	47.4	32 1	R
1-Methylnaphthalene	23.73	µg/L	2.0	59.2	32.5	93.3	45.7	32.7	R
2-Methylnaphthalene	23 01	µg/L	2.0	57.5	32.8	89.6	47 4	34	R
Acenaphthylene	23.33	µg/L	2 5	58.2	37.8	92.4	40.3	38.8	R
Acenaphthene	25.02	µg/L	5.0	62 6	38.6	93.9	39.6	38.6	R
Fluorene	2.620	µg/L	0.80	65.3	38	95.5	34.5	29.3	R

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Hess Corporation
Project: Hess West Bravo Dome **Work Order:** 0806231

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8310: PAHs									
Sample ID: LCSD-16218		*LCSD*			Batch ID:	**16218**	Analysis Date:		6/30/2008 2:15:04 PM
Phenanthrene	1.470	µg/L	0.60	65.7	32.9	107	23.6	25	
Anthracene	1.400	µg/L	0 60	69 7	35 2	98.3	27.6	23.9	R
Fluoranthene	2.780	µg/L	0.30	69.3	36.4	104	27.4	15 7	R
Pyrene	2.550	µg/L	0.30	63.6	37 1	102	29 2	15.3	R
Benz(a)anthracene	0.2500	µg/L	0.070	62.3	33.7	101	38.1	19	R
Chrysene	1.340	µg/L	0.20	66.7	35.2	96.1	32.0	16 6	R
Benzo(b)fluoranthene	0.3200	µg/L	0 10	63.9	33.6	94.2	28.6	21.7	R
Benzo(k)fluoranthene	0.1600	µg/L	0.070	60.0	25 4	110	28.6	19.4	R
Benzo(a)pyrene	0.1500	µg/L	0.070	59.8	26.9	102	22.2	16.7	R
Dibenz(a,h)anthracene	0.3200	µg/L	0.070	63.9	40.7	92.1	28.6	17.3	R
Benzo(g,h,i)perylene	0.3200	µg/L	0 080	64.0	24.3	109	28.6	18	R
Indeno(1,2,3-cd)pyrene	0.6560	µg/L	0 080	65.5	42.6	99.9	26.6	17 7	R
Method: EPA Method 7470: Mercury									
Sample ID: MB-16412		*MBLK*			Batch ID:	**16412**	Analysis Date:		7/7/2008 2:45.45 PM
Mercury	ND	mg/L	0.00020						
Sample ID: LCS-16412		*LCS*			Batch ID:	**16412**	Analysis Date:		7/7/2008 2:47:33 PM
Mercury	0.005104	mg/L	0.00020	102	80	120			

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Hess Corporation
Project: Hess West Bravo Dome **Work Order:** 0806231

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA 6010B: Total Recoverable Metals									
Sample ID: MB-16227		*MBLK*			Batch ID:	**16227**	Analysis Date.		6/19/2008 3:05:17 PM
Aluminum	ND	mg/L	0 020						
Barium	ND	mg/L	0.010						
Boron	ND	mg/L	0.040						
Cadmium	ND	mg/L	0.0020						
Chromium	ND	mg/L	0.0060						
Cobalt	ND	mg/L	0.0060						
Copper	ND	mg/L	0.0060						
Iron	ND	mg/L	0.050						
Lead	ND	mg/L	0 0050						
Manganese	ND	mg/L	0.0020						
Molybdenum	ND	mg/L	0.0080						
Nickel	ND	mg/L	0.010						
Silver	ND	mg/L	0.0050						
Zinc	ND	mg/L	0.020						
Sample ID: MB-16227		*MBLK*			Batch ID:	**16227**	Analysis Date.		6/23/2008 1:27:33 PM
Chromium	ND	mg/L	0.0060						
Lead	ND	mg/L	0.0050						
Sample ID: MB-16227		*MBLK*			Batch ID:	**16227**	Analysis Date·		7/8/2008 2:56:39 PM
Aluminum	ND	mg/L	0.020						
Barium	ND	mg/L	0 010						
Boron	ND	mg/L	0.040						
Cadmium	ND	mg/L	0.0020						
Cobalt	ND	mg/L	0 0060						
Copper	ND	mg/L	0.0060						
Iron	ND	mg/L	0.050						
Manganese	ND	mg/L	0.0020						
Molybdenum	ND	mg/L	0.0080						
Nickel	ND	mg/L	0.010						
Silver	ND	mg/L	0.0050						
Zinc	ND	mg/L	0.020						
Sample ID: LCS-16227		*LCS*			Batch ID:	**16227**	Analysis Date:		6/19/2008 3:08:20 PM
Aluminum	0.4852	mg/L	0.020	96.3	80	120			
Barium	0.4716	mg/L	0.010	94.3	80	120			
Boron	0.4712	mg/L	0.040	92.9	80	120			
Cadmium	0.4657	mg/L	0.0020	93.1	80	120			
Chromium	0.4700	mg/L	0.0060	94.0	80	120			
Cobalt	0.4524	mg/L	0.0060	90.5	80	120			
Copper	0.4799	mg/L	0.0060	96.0	80	120			
Iron	0.4724	mg/L	0.050	94.5	80	120			
Lead	0.4650	mg/L	0.0050	93.0	80	120			
Manganese	0 4710	mg/L	0.0020	94.2	80	120			
Molybdenum	0.4845	mg/L	0.0080	96.9	80	120			
Nickel	0.4531	mg/L	0.010	90.6	80	120			

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Hess Corporation
Project: Hess West Bravo Dome **Work Order:** 0806231

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA 6010B: Total Recoverable Metals									
Sample ID: LCS-16227		*LCS*			Batch ID: **16227**		Analysis Date:		6/19/2008 3:08:20 PM
Silver	0.4797	mg/L	0.0050	95.9	80	120			
Zinc	0.4617	mg/L	0.020	92.3	80	120			
Sample ID: LCS-16227		*LCS*			Batch ID: **16227**		Analysis Date:		6/23/2008 1:29:59 PM
Chromium	0.4388	mg/L	0.0060	87.8	80	120			
Lead	0.4305	mg/L	0.0050	86.1	80	120			
Sample ID: LCS-16227		*LCS*			Batch ID: **16227**		Analysis Date:		7/8/2008 2:59:40 PM
Aluminum	0.4788	mg/L	0.020	93.0	80	120			
Barium	0.4854	mg/L	0.010	97.1	80	120			
Boron	0.5076	mg/L	0.040	102	80	120			
Cadmium	0.4870	mg/L	0.0020	97.4	80	120			
Cobalt	0.4958	mg/L	0.0060	99.2	80	120			
Copper	0.4833	mg/L	0.0060	96.7	80	120			
Iron	0.5185	mg/L	0.050	104	80	120			
Manganese	0.4815	mg/L	0.0020	96.3	80	120			
Molybdenum	0.5174	mg/L	0.0080	103	80	120			
Nickel	0.4779	mg/L	0.010	95.6	80	120			
Silver	0.4764	mg/L	0.0050	95.3	80	120			
Zinc	0.4978	mg/L	0.020	99.6	80	120			
Method: SM 2540C Total Dissolved Solids									
Sample ID: MB-16241		*MBLK*			Batch ID: **16241**		Analysis Date:		6/20/2008
Total Dissolved Solids	ND	mg/L	20						
Sample ID: LCS-16241		*LCS*			Batch ID: **16241**		Analysis Date:		6/20/2008
Total Dissolved Solids	1005	mg/L	20	100	80	120			

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Hess Corporation
Project: Hess West Bravo Dome **Work Order:** 0806231

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: 5ml rb		*MBLK*			Batch ID: **R28995**		Analysis Date:	6/19/2008 8:54:12 AM	
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0						
1,2,4-Trimethylbenzene	ND	µg/L	1.0						
1,3,5-Trimethylbenzene	ND	µg/L	1.0						
1,2-Dichloroethane (EDC)	ND	µg/L	1.0						
1,2-Dibromoethane (EDB)	ND	µg/L	1.0						
Naphthalene	ND	µg/L	2.0						
1-Methylnaphthalene	ND	µg/L	4.0						
2-Methylnaphthalene	ND	µg/L	4.0						
Acetone	ND	µg/L	10						
Bromobenzene	ND	µg/L	1.0						
Bromodichloromethane	ND	µg/L	1.0						
Bromoform	ND	µg/L	1.0						
Bromomethane	ND	µg/L	1.0						
2-Butanone	ND	µg/L	10						
Carbon disulfide	ND	µg/L	10						
Carbon Tetrachloride	ND	µg/L	1.0						
Chlorobenzene	ND	µg/L	1.0						
Chloroethane	ND	µg/L	2.0						
Chloroform	ND	µg/L	1.0						
Chloromethane	ND	µg/L	1.0						
2-Chlorotoluene	ND	µg/L	1.0						
4-Chlorotoluene	ND	µg/L	1.0						
cis-1,2-DCE	ND	µg/L	1.0						
cis-1,3-Dichloropropene	ND	µg/L	1.0						
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0						
Dibromochloromethane	ND	µg/L	1.0						
Dibromomethane	ND	µg/L	1.0						
1,2-Dichlorobenzene	ND	µg/L	1.0						
1,3-Dichlorobenzene	ND	µg/L	1.0						
1,4-Dichlorobenzene	ND	µg/L	1.0						
Dichlorodifluoromethane	ND	µg/L	1.0						
1,1-Dichloroethane	ND	µg/L	1.0						
1,1-Dichloroethene	ND	µg/L	1.0						
1,2-Dichloropropane	ND	µg/L	1.0						
1,3-Dichloropropane	ND	µg/L	1.0						
2,2-Dichloropropane	ND	µg/L	2.0						
1,1-Dichloropropene	ND	µg/L	1.0						
Hexachlorobutadiene	ND	µg/L	1.0						
2-Hexanone	ND	µg/L	10						
Isopropylbenzene	ND	µg/L	1.0						
4-Isopropyltoluene	ND	µg/L	1.0						

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Hess Corporation
Project: Hess West Bravo Dome **Work Order:** 0806231

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: 5ml rb		*MBLK*			Batch ID: **R28995**		Analysis Date:	6/19/2008 8:54:12 AM	
4-Methyl-2-pentanone	ND	µg/L	10						
Methylene Chloride	ND	µg/L	3.0						
n-Butylbenzene	ND	µg/L	1.0						
n-Propylbenzene	ND	µg/L	1.0						
sec-Butylbenzene	ND	µg/L	1.0						
Styrene	ND	µg/L	1.0						
tert-Butylbenzene	ND	µg/L	1.0						
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0						
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0						
Tetrachloroethene (PCE)	ND	µg/L	1.0						
trans-1,2-DCE	ND	µg/L	1.0						
trans-1,3-Dichloropropene	ND	µg/L	1.0						
1,2,3-Trichlorobenzene	ND	µg/L	1.0						
1,2,4-Trichlorobenzene	ND	µg/L	1.0						
1,1,1-Trichloroethane	ND	µg/L	1.0						
1,1,2-Trichloroethane	ND	µg/L	1.0						
Trichloroethene (TCE)	ND	µg/L	1.0						
Trichlorofluoromethane	ND	µg/L	1.0						
1,2,3-Trichloropropane	ND	µg/L	2.0						
Vinyl chloride	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	1.5						
Sample ID: 100ng lcs		*LCS*			Batch ID: **R28995**		Analysis Date:	6/19/2008 9:52:08 AM	
Benzene	21.08	µg/L	1.0	105	86.8	120			
Toluene	20.29	µg/L	1.0	101	64.1	127			
Chlorobenzene	20.88	µg/L	1.0	104	82.4	113			
1,1-Dichloroethene	24.61	µg/L	1.0	123	86.5	132			
Trichloroethene (TCE)	18.71	µg/L	1.0	93.5	77.3	123			

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name HESS | Date Received: 6/16/2008

Work Order Number 0806231 | Received by: AT

Checklist completed by: Signature 6/16/08 Date | Sample ID labels checked by. AT Initials

Matrix. | Carrier name Client drop-off

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☐	Not Shipped ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace? No VOA vials submitted ☐		Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☑	No ☐	N/A ☐	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐	
Container/Temp Blank temperature?	1°	*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Hess Corporation

Address: HCR72, Box 30
Mosquero, NM 87733

Phone #: 575-650-0316

email or Fax#: dholcomb@hess.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)
☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☐ Rush _____

Project Name: Hess West Bravo Dome

Project #: Girard Well

Project Manager: Michael Ford

Sampler: Danny Holcomb

On Ice: ☒ Yes ☐ No

Sample Temperature: 4

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

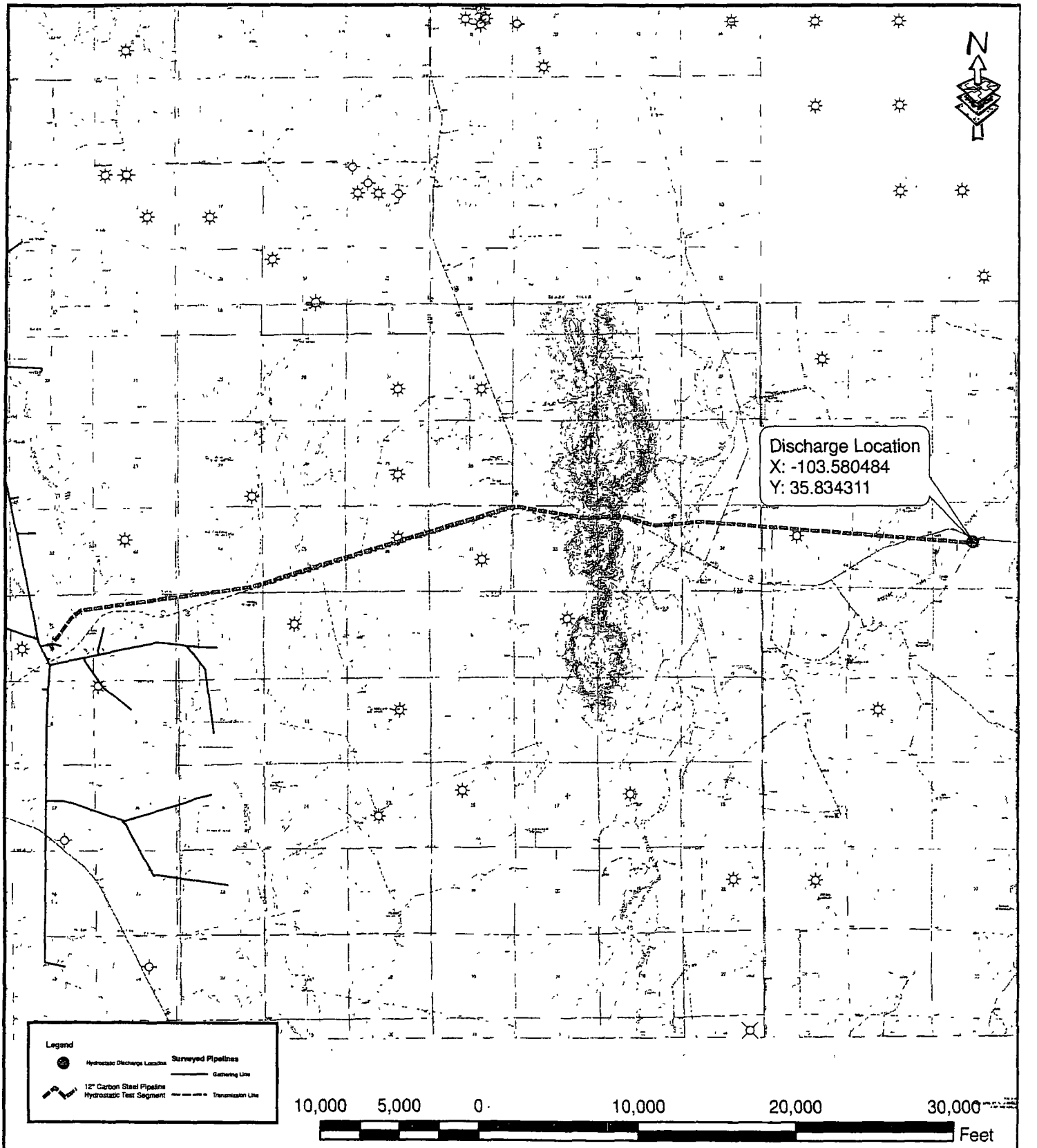
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 0806231	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8260)	8310 (PNA or PAH)	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	See Attached List				Air Bubbles (Y or N)
6/16/08	7:00a	Girard Well	Brn Glass	H_2SO_4	-1												X				
	7:02a	"	"	—													X				
	7:03a	"	"	—													X				
	7:08a	"	Plastic Qt	HNO_3													X				
	7:09a	"	"	HNO_3													X				
	7:10a	"	Plastic	HNO_3													X				
	7:11a	"		NaOH													X				
	7:14a	"		HNO_3													X				
	7:16a	"		H_2SO_4													X				
	7:18a	"		—													X				
	7:21a	"	Glass Ampule	—													X				
6/16/08	7:25 7:27a	(3 bottles)	"	$HgCl_2$	-1												X				

Date:	Time:	Relinquished by:	Received by:
6/16/08	8:30a	Danny Holcomb	
6/16/08	12:25	Victor R Vigil	6/16/08 1225

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



REV	Date	By	Description	CHK
A	5/08	DM	Issue for Approval	ND

Project No. 11351

MUSTANG ENGINEERING, L.P.

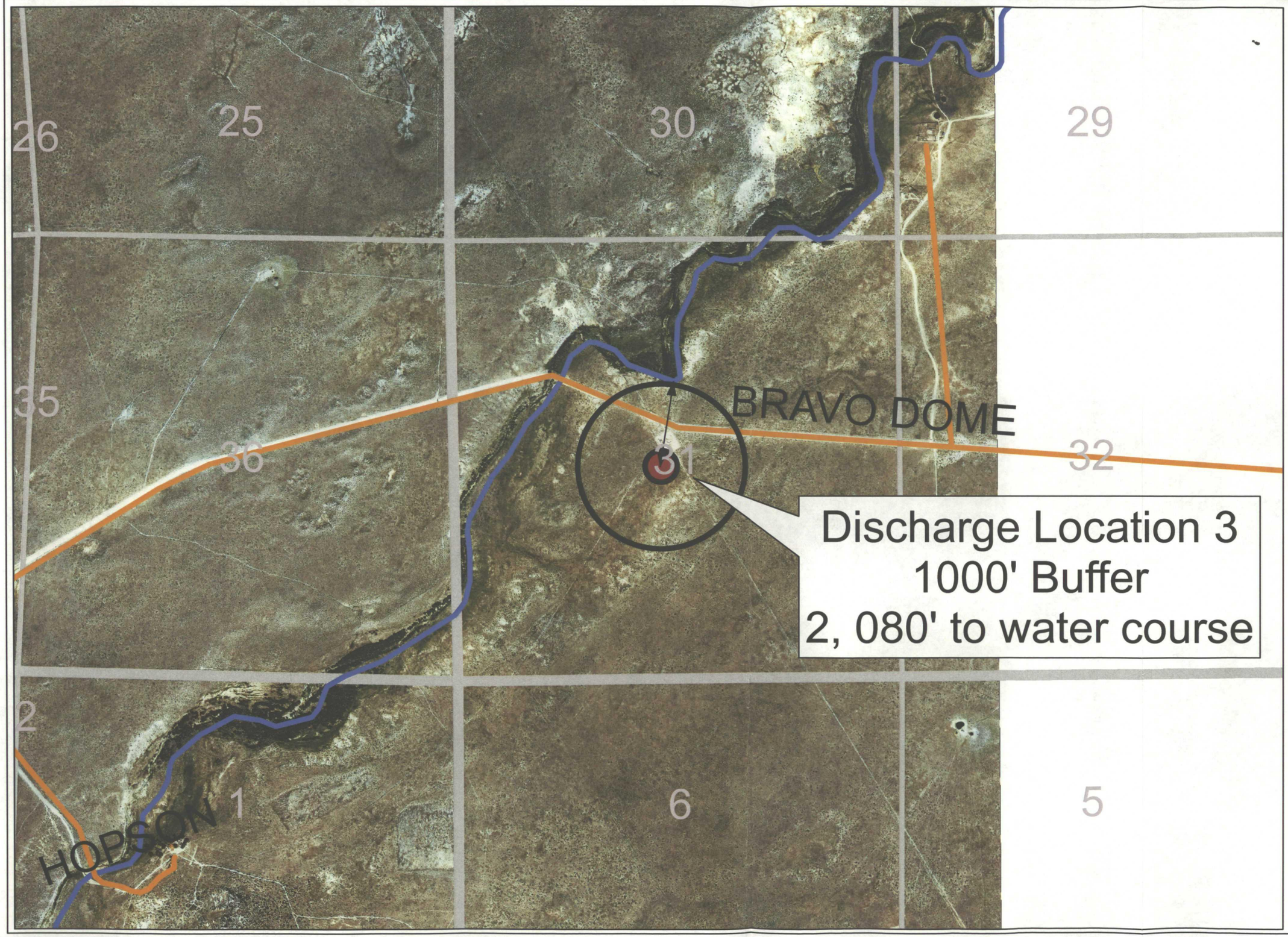
HESS CORPORATION
U.S. ONSHORE PRODUCTION

Bravo Dome and West Bravo Dome Areas

Harding County — Hydrostatic Discharge Location — New Mexico

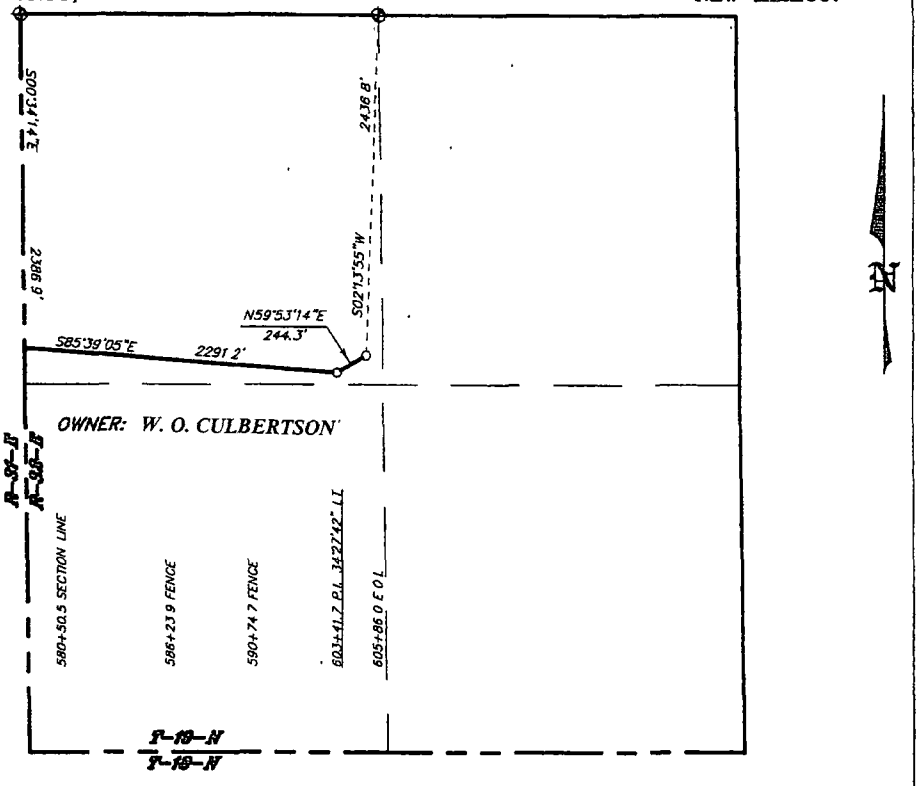
Drawn By: DM	Date: 5/6/08	Drawing: D-WBD-7900-9099	REV. A
Checked By: ND	Date: 5/7/08		
	Approved: ND		

R:\Projects\11351\DRAWINGS\95-Environmental\Hydrostatic Discharge Drawing 5.mxd


26
25
30
29
35
36
31
32
2
1
6
5
BRAVO DOME
HODSON
Discharge Location 3
1000' Buffer
2, 080' to water course
Legend
Discharge Point
Buffer
Water Course
Roads
HESS
HESS CORPORATION
U.S. ONSHORE PRODUCTION
WEST BRAVO DOME AREA
HARDING COUNTY, NEW MEXICO
HYDROSTATIC DISCHARGE LOCATIONS
0
480
960
1,440
1,920
Feet
Geologist: G.A. OLSON
Engineer: D.S. STOLL
Landman: J.S. HUGHART
DATE: JUNE, 2008
BD_WBD_Hydrostatic_Discharge11x17.mxd

SECTION 31, TOWNSHIP 19 NORTH, RANGE 32 EAST, N.M.P.M.,

HARDING COUNTY, NEW MEXICO.



LEGAL DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE, LOCATED IN SECTION 31, TOWNSHIP 19 NORTH, RANGE 32 EAST, N.M.P.M., HARDING COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND RIGHT OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY.

BEGINNING AT A POINT ON THE WEST SECTION LINE WHICH LIES S 00°34'14"E, 2386.9 FEET FROM THE NORTHWEST CORNER OF SAID SECTION 31, THENCE S.85°39'05"E., 2291.2 FEET; THENCE N.59°53'14"E., 244.3 FEET TO THE END OF THIS LINE WHICH LIES S 02°13'55"W, 2436.8 FEET FROM THE NORTH QUARTER CORNER OF SAID SECTON 31 SAID STRIP OF LAND BEING 2535.5 FEET OR 153.67 RODS IN LENGTH

NOTE: COORDINATES AND BEARINGS ARE BASED ON A LAMBERT CONICAL PROJECTION OF THE NEW MEXICO STATE PLANE COORDINATE SYSTEM (NAD 83), EASTL ZONE AND DISTANCES ARE OF SURFACE VALUE.

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF LAND ACTUAL SURVEY AND MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND SURVEYS AS SPECIFIED BY THIS STATE

GARY L. JONES No. 7977
No. 5074

1000 0 1000 2000 FEET

HESS CORPORATION

REF PROPOSED STEEL PIPELINE

A PIPELINE CROSSING FEE LAND IN

SECTION 31, TOWNSHIP 19 NORTH, RANGE 32 EAST,

N.M.P.M., HARDING COUNTY, NEW MEXICO.

BASIN SURVEYS P.O. BOX 1786 – HOBBS, NEW MEXICO

W.O. Number HARDING CO.	Drawn By. J. M. SMALL		
Date: 02-14-2008	Disk: JMS HARDING CO	Survey Date: VARIES	Sheet 125 of Sheets

SURFACE USE AGREEMENT

This Surface Use Agreement ("Agreement") is dated and made effective May 1, 2008 ("Effective Date"), by and between W. O. Culbertson & Sons, Inc., ("WOC"), whose address is 1101 Liberal St., Dalhart, Texas, 79022 and Hess Corporation ("Hess"), a Delaware corporation with an office at 500 Dallas St., Level 2, Houston, Texas 77002. WOC and Hess are hereinafter individually referred to as "Party" and collectively as the "Parties".

WHEREAS, Hess is constructing a carbon dioxide gas processing plant (the Plant) located in Section 5, Township 18 North, Range 30 East, Harding County, New Mexico for the purpose of processing carbon dioxide gas to be produced from the nearby West Bravo Dome Carbon Dioxide Gas Unit and other leases and lands; and

WHEREAS, Hess intends to construct an approximate twelve (12) mile carbon dioxide steel transport line ("the Transport Line") from the Plant through portions of Township 18 North, Range 30 East and Township 19 North, Ranges 30-32 East and ending in Section 31, Township 19 North, Range 32 East at the interconnect with the Sheep Mountain Pipeline located near Rosebud, New Mexico; and

WHEREAS, Portions of the Transport Line shall cross lands owned in fee simple or leased from the State of New Mexico by WOC located in Section 31, Township 19 North, Range 32 East ("the WOC Lands").

Certification of Compliance with Siting Criteria

I, Danny Holcomb, Operations Team Leader with Hess Corporation, visited the proposed discharge site in the field on June 10, 2008, and verified that the proposed discharge location for the hydrostatic test water, upon OCD approval, meets the following criteria:

- No watercourses within 200 feet
- No existing wellhead protection area
- Not located within a 100-year floodplain
- No wetlands within 500 feet
- No permanent residence, school, hospital, institution or church with 500 feet

My observation in the field matches the enclosed map showing where Hess's pipeline construction contractor plans to discharge the water.

D Holcomb | Oper. Team Leader | 7-21-08

Signature | Title | Date

Ford, Michael

From: Padilla, Darren, NMENV [darren.padilla@state.nm.us]
Sent: Thursday, July 17, 2008 4.36 PM
To: Ford, Michael
Subject: RE: Wellhead Protection Area

Hi Mike,

Based on what you provided it is apparent the discharge site is not anywhere near any wellhead protection areas for public water systems in NM The closest ones are located tens of miles from the site.

Good luck with the project!

Darren

Darren J. Padilla
Hydrologist
Drinking Water Bureau
NM Environment Dept.
Phone: 505/476-8631
Fax: 505/476-8656

From: Ford, Michael [mailto:MFord@hess.com]
Sent: Thursday, July 17, 2008 2:36 PM
To: Padilla, Darren, NMENV
Subject: Wellhead Protection Area

Darren,

Per our phone conversation this afternoon, Hess Corporation is preparing a water discharge permit application to the New Mexico Oil Conservation Division for hydrostatic test water from a new carbon dioxide transmission line. The hydrostatic test water will de discharged approximately in the middle of Section 31, T-19-N, R-32-E, Harding County, New Mexico. The coordinates for the discharge are 35 deg 50.033N and 103 deg 34.810W. I have also attached a PDF file containing an aerial photograph of the proposed discharge location.

Please advise if the proposed discharge location is located within any existing wellhead protection areas

Let me know if you have any questions on this and thanks for the help.

Mike Ford
Environmental Advisor
Hess Corporation
Phone: 713-609-4204

<<DischargePoint3.pdf>>

FEMA Map Service Center

Product Catalog | Map Search | Quick Order | Digital Post Office | Help

Log on

Home > Product Catalog > FEMA Issued Flood Maps

FEMA Issued Flood Maps

State : NEW MEXICO **County :** HARDING COUNTY **Community :** HARDING CO *

Sorry there are no items to display for this County

* designates unincorporated areas

FEMA Map Service Center, P O. Box 1038 Jessup, Maryland 20794-1038 Phone. (800) 358-9616

Ford, Michael

From: Moiola, Lloyd, EMNRD [lloyd.moiola@state.nm.us]
Sent: Thursday, June 19, 2008 12:36 PM
To: Ford, Michael
Subject: RE: Abandoned Mines - Hydrostatic Test Water Discharge Permit Applications

Mr. Ford,

Records in the Abandoned Mine Land Program office in Santa Fe do not show any abandoned mines in your project area.

Thanks,

Lloyd Moiola
AML Project Manager

From: Ford, Michael [mailto:MFord@hess.com]
Sent: Tuesday, June 17, 2008 10:12 AM
To: Moiola, Lloyd, EMNRD
Subject: Abandoned Mines - Hydrostatic Test Water Discharge Permit Applications

Mr. Moiola,

Hess Corporation is currently preparing pipeline hydrostatic test water discharge permit applications for our West Bravo Dome carbon dioxide (CO2) pipeline project. Please advise if your records show any abandoned mines in the following locations:

1. Sect. 31, T-19-N, R-32-E

2. Sect. 5, T-18-N, R-30-E

3. Sect. 16, T-18-N, R-30-E

Thanks for your help.

Please contact me if you have any questions regarding this information request.

Mike Ford
Environmental Advisor
Hess Corporation
Phone: 713-609-4204
Mobile. 713-829-6076

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 19N Range: 32E Sections: 31

NAD27 X: Y: Zone: Search Radius:

County: HA Basin: Number: Suffix:

Owner Name: (First) (Last) ○ Non-Domestic ○ Domestic ◉ All

POD / Surface Data Report | Avg Depth to Water Report | Water Column Report

Clear Form | iWATERS Menu | Help

AVERAGE DEPTH OF WATER REPORT 07/17/2008

(Depth Water in Feet)

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	Min	Max	Avg

No Records found, try again