

3R - 0389

**ANNUAL
MONITORING
REPORT**

04/25/2008

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413

3R 389

RECEIVED

2008 APR 30 PM 3 32

April 25, 2008

Mr. Glenn von Gonten, Senior Hydrologist
New Mexico Oil Conservation Division-NMOCD
Environmental Bureau
1220 St. Francis Drive
Santa Fe, New Mexico 87505

**Re: BP America Production Company
Groundwater Monitoring Report
GCU # 194, Unit D, Sec. 5, T27N, R12W, NMPM
San Juan County, New Mexico**

NMOCD Administrative/Environmental Order #: 3RP-389-0

Dear Mr. von Gonten:

BP America Production Company (BP) has retained Blagg Engineering, Inc. (BEI) to conduct environmental monitoring of groundwater at the GCU # 194.

The last formal correspondence to NMOCD was conducted with a letter dated February 10, 2006. Since then, BP has followed its NMOCD approved groundwater management plan and continues to monitor the site. No permanent closure is requested at this time.

If you have any questions concerning the enclosed documentation, please contact either myself or Jeffrey C. Blagg at (505) 632-1199. Thank you for your cooperation and assistance.

Respectfully submitted:
Blagg Engineering, Inc.

Nelson J. Velez
Staff Geologist

Attachment: Groundwater Report (2 copies)

cc: Mr. Brandon Powell, Environmental Specialist, NMOCD District III Office, Aztec, NM
Mr. Larry Schlotterback, Environmental Coordinator, BP, Farmington, NM (without lab report)
Ms. Shannon Hoover, Senior Geologist, URS Corp., Austin, Texas

NJV/njv

GCU 194 04-25-08 CVL.DOC

37-389

RECEIVED

BP AMERICA PRODUCTION CO. 2008 APR 30 PM 3 32

GROUNDWATER REMEDIATION REPORT

**GCU # 194
(D) SECTION 5, T27N, R12W, NMPM
SAN JUAN COUNTY, NEW MEXICO**

**PREPARED FOR:
NEW MEXICO OIL CONSERVATION DIVISION
1220 ST. FRANCIS DRIVE
SANTA FE, NEW MEXICO 87504**

APRIL 2008

**PREPARED BY:
BLAGG ENGINEERING, INC.**

**Consulting Petroleum / Reclamation Services
P.O. Box 87
Bloomfield, New Mexico 87413**

BP AMERICA PRODUCTION COMPANY
GCU # 194 - Dehydrator Pit
NW/4 NW/4, Sec. 5, T27N, R12W

Monitor Well Installation Date: 7/6/06 (MW #4)

Monitor Well Sampling Dates: 8/3/06, 6/25/07, 9/17/07, 11/14/07

Site History:

A site dehydrator pit closure was initiated in April 2002. Potential groundwater impacts were identified within the source area from sampling and testing of the exposed groundwater via excavation. A secondary source area was discovered during installation of a groundwater monitor well (MW #3) in December 2002; and thereafter, sampling and testing verified groundwater impacts. During quarterly sampling in March 2004, free phase product was observed within MW #3 and continues to be present. Documentation of this work and subsequent groundwater monitoring data for the site have previously been submitted for New Mexico Oil Conservation Division (NMOCD) review. Further site delineation and limited excavation of the secondary source area was suggested within the report. The reporting herein is for site monitoring for 2006 and 2007.

Groundwater Investigation and Soil Lithology:

Groundwater monitor well MW #4 was installed in July 2006 to delineate the previously identified secondary source area and to test groundwater quality (Figure 1). The initial boring intended for MW #4 (BH-4), revealed a dark gray to black sand with a strong apparent hydrocarbon odor between 6 ½ to 8 ½ feet below grade. BH-4 was located approximately 60 feet north from monitor well MW #3. BH-4 was grouted and abandoned using ¾ inch bentonite chips. MW #4 was installed 30 feet beyond BH-4 in the down gradient direction where physical characteristics revealed a more apparent non-impacted soil conditions.

Soil lithology at the site consists of primarily sand, non cohesive, firm, and with varying color. Boring logs for BH-4 and MW #4 are included.

Groundwater Monitor Well Sampling Procedures:

Monitor well MW #4 was developed after installation by hand-bailing, using new disposable bailers. Prior to sample collections, MW #4 was purged approximately three (3) well bore volumes with new disposable bailers. The groundwater samples were collected following US EPA: SW-846 protocol, were placed into laboratory supplied containers with appropriate preservative, and stored in an ice chest for express delivery to an analytical laboratory for testing under strict chain-of-custody procedures. Analytical testing included benzene, toluene, ethylbenzene, and total xylenes (BTEX) by US EPA Method 8021B.

Fluids generated during monitor well development and purging were managed by discarding into the separator tank pit located on the well site. The tank pit contents are then disposed through approved NMOCD operational procedures for removal of produced fluids.

Groundwater Quality & Flow Direction Information:

Since June 2007, monitor well MW #4 has been sampled on a quarterly basis. Fluctuations above and below the New Mexico Water Quality Control Commission (NMWQCC) standards has been recorded. Source area monitor well MW#3 has continued to reveal the presence of free phase product. A historical summary of laboratory analytical BTEX results is included within the table on the following page. Field data sheets, laboratory reports, and laboratory quality assurance/quality control information are also included.

Groundwater elevations have consistently been measured with a gradient towards the north and parallel to the nearby Gallegos Canyon wash (Figure 2 through Figure 4).

Summary and/or Recommendations:

The well site is located in a very remote area of San Juan County. Quarterly monitoring of MW #3 and sampling of MW #4 is currently being conducted. The presence of free phase product within monitor well MW #3 indicates long term monitoring will be necessary if proactive remediation efforts are not undertaken. Shallow groundwater suggests excavation of the secondary source area might be the most practical solution. Alternative technologies such as air sparging may be suitable for remediation of lower dissolved concentrations of BTEX and/or the secondary source area.

BP AMERICA PROD. CO. GROUNDWATER LAB RESULTS
 SUBMITTED BY BLAGG ENGINEERING, INC.

GCU # 194 - SEPARATOR PIT
UNIT D, SEC. 5, T27N, R12W

REVISED DATE: November 30, 2007

FILENAME: (194-4Q07.WK4) NJV

SAMPLE DATE	WELL NAME or No.	D.T.W. (ft)	T.D. (ft)	TDS (mg/L)	COND. umhos	pH	PRODUCT (ft)	BTEX EPA METHOD 8021B (ppb)			
								Benzene	Toluene	Ethyl Benzene	Total Xylene
23-Dec-02	MW #1	8.04	14.50	-	6,100	7.73	-	ND	ND	ND	ND
23-Dec-02	MW #2	7.84	14.50	-	7,100	7.94	-	6.8	0.5	14	8.0
24-Feb-03		7.72		-	6,900	8.03	-	5.4	ND	9.9	13
29-May-03		7.96			6,100	7.78		5.4	1.0	6.7	11
18-Aug-03		8.58			8,700	7.56		11	ND	17	19
18-Nov-03		8.20			7,900	7.66		2.3	ND	8.4	5.1
22-Mar-04		7.80			6,800	7.59		2.1	ND	5.8	7.6
23-Jun-04		8.43			8,000	7.49		3.5	ND	8.5	5.4
22-Dec-04		7.93			N/A	N/A		ND	ND	1.9	2.7
28-Mar-05		7.67			6,400	7.58		ND	ND	1.5	2.1
23-Dec-02	MW #3	8.69	14.00	-	8,800	7.80	-	180	34	220	2,130
29-May-03		8.81			7,700	7.40		8.6	7.6	8.5	17
18-Aug-03		9.46			9,500	7.25		13	ND	2.1	30
18-Nov-03		8.97			7,900	7.37		1,800	100	1,300	13,000
22-Mar-04							0.01				
23-Jun-04							0.45				
22-Dec-04							0.40				
28-Mar-05							0.01				
27-Jul-06							0.04				
25-Jun-07							0.10				
17-Sep-07							0.01				
14-Nov-07							0.01				
03-Aug-06	MW #4	8.82	17.15		800	7.33		91	ND	130	ND
25-Jun-07		8.60			4,800	7.44		ND	ND	ND	ND
17-Sep-07		8.87			6,500	7.22		ND	ND	ND	ND
14-Nov-07		8.43			7,100	7.57		31	ND	26	ND
NMWQCC GROUNDWATER STANDARDS								10	750	750	620

- NOTES : 1) RESULTS IN BOLD RED TYPE INDICATE EXCEEDING NMWQCC STANDARDS .
- 2) RESULTS IN BOLD BLUE TYPE INDICATE BELOW NMWQCC STANDARDS AFTER PREVIOUS RESULTS IN BOLD RED TYPE EXCEEDED .
- 3) ND INDICATES NOT DETECTED AT THE REPORTING LIMITS (less than regulatory standards of at least a magnitude of 10) .

BLAGG ENGINEERING, Inc.

P.O. BOX 87

BLOOMFIELD, NM 87413

(505) 632-1199

BORE / TEST HOLE REPORT

BORING #..... BH - 4
MW #..... N/A
PAGE #..... 4
DATE STARTED 7/06/06
DATE FINISHED 7/06/06
OPERATOR..... KP
PREPARED BY NJV

CLIENT: BP AMERICA PRODUCTION COMPANY
LOCATION NAME: GCU # 194 UNIT D, SEC. 5, T27N, R12W
CONTRACTOR: BLAGG ENGINEERING, INC.
EQUIPMENT USED: MOBILE DRILL RIG (CME 75)
BORING LOCATION: 125.5 FEET, S26.5W FROM WELL HEAD.

DEPTH (FT.)	INTERVAL	LITHOLOGY INTERVAL	MW SCHEMATIC	FIELD CLASSIFICATION AND REMARKS
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				


GROUND SURFACE

DARK YELLOWISH BROWN SAND, NON COHESIVE, SLIGHTLY MOIST TO SATURATED, FIRM, NO APPARENT HC ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (0.0 - 6.5 FT. BELOW GRADE).

SAMPLE BH4 @ 7 FT. - TIME COLLECTED 1253, OVM = **78.4** ppm (collected from auger cuttings).

DARK GRAY TO BLACK SAND, NON COHESIVE, WET, LOOSE TO FIRM, STRONG APPARENT HC ODOR DETECTED PHYSICALLY WITHIN CUTTINGS, (6.5 - 8.5 FT. BELOW GRADE).

DARK GREENISH GRAY SAND, NON COHESIVE, SATURATED, APPARENT HC ODOR DETECTED PHYSICALLY WITHIN CUTTINGS, (8.5 - 10.0 FT. BELOW GRADE).

NOTES:  - SAND.

OVM - organic vapor meter or PID (photoionization detector).
ppm - parts per million.

OVM CALIBRATION:

54.5 ppm; RF = 0.52
(RF = response factor).

100 ppm calibration gas
- Isobutylene.

Date - 7/06/06.
Time - 0833.

DRAWING: GCU 194-BH4. SKF DATE: 7/07/06 DWN BY: NJV

BLAGG ENGINEERING, Inc.

P.O. BOX 87
BLOOMFIELD, NM 87413
(505) 632-1199

MW #4

BORE / TEST HOLE REPORT

CLIENT: **BP AMERICA PRODUCTION COMPANY**
LOCATION NAME: **GCU # 194** **UNIT D, SEC. 5, T27N, R12W**
CONTRACTOR: **BLAGG ENGINEERING, INC.**
EQUIPMENT USED: **MOBILE DRILL RIG (CME 75)**
BORING LOCATION: **98 FEET, S33W FROM WELL HEAD.**

BORING #..... **BH - 5**
MW #..... **4**
PAGE #..... **5**
DATE STARTED **7/06/06**
DATE FINISHED **7/06/06**
OPERATOR..... **KP**
PREPARED BY **NJV**

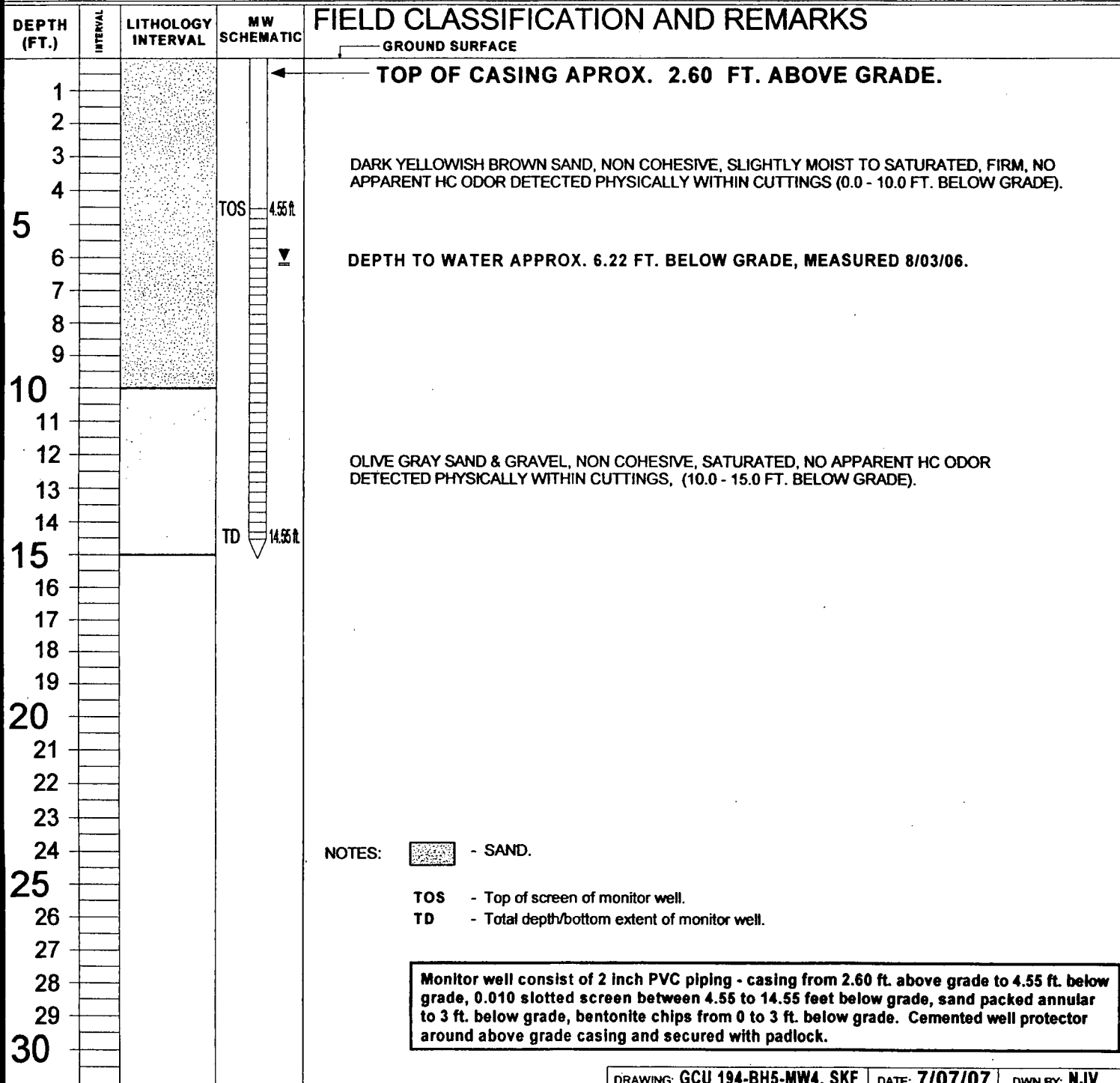
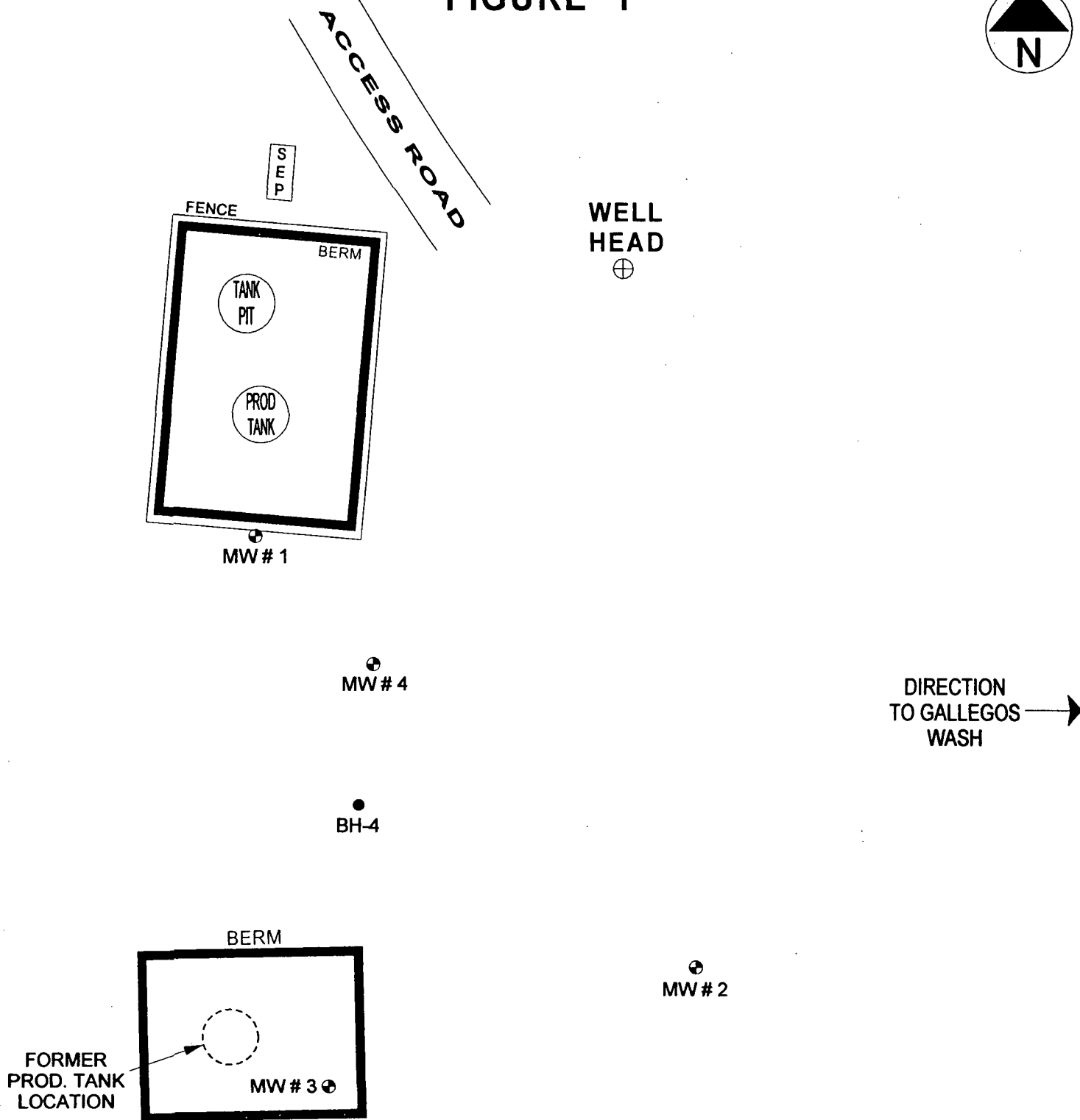
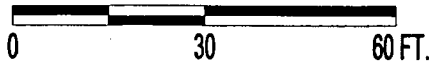


FIGURE 1



1 INCH = 30 FT.



MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE AND BEARING FROM THE WELL HEAD (TAPE MEASURE, LASER RANGE FINDER, & BRUNTON COMPASS). ALL OTHER STRUCTURES DISPLAYED ON THE SCHEMATIC ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

BP AMERICA PRODUCTION COMPANY

GCU # 194

NW/4 NW/4 SEC. 5, T27N, R12W, NMPPM

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87

BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 832-1199

PROJECT: MW INSTALLATION

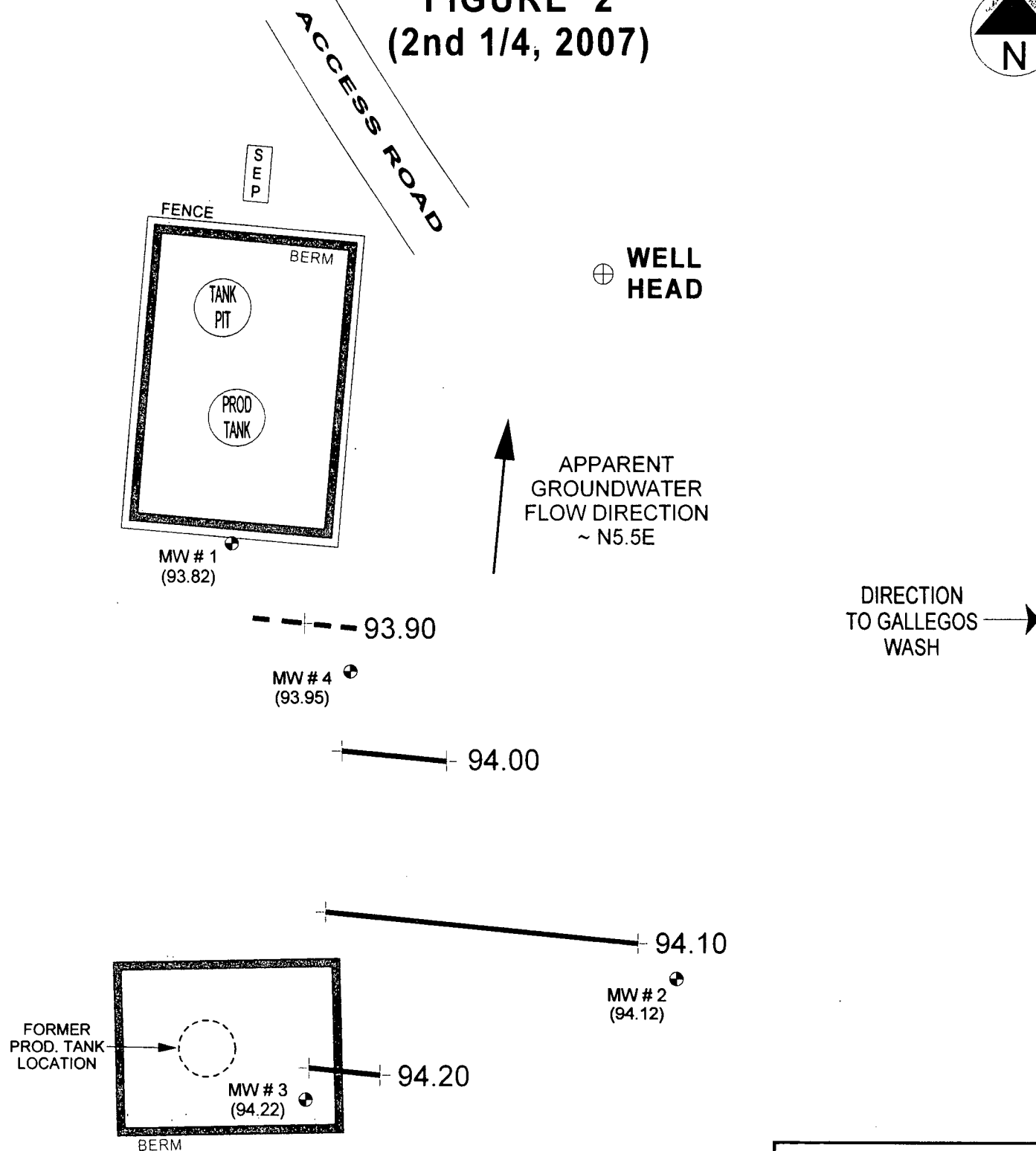
DRAWN BY: NJV

FILENAME: 07-06-06-SM2.SKF

**SITE
MAP**

07/06

FIGURE 2
(2nd 1/4, 2007)



MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE AND BEARING FROM THE WELL HEAD (TAPE MEASURE, LASER RANGE FINDER, & BRUNTON COMPASS). ALL OTHER STRUCTURES DISPLAYED ON THE SCHEMATIC ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

Top of Well Elevation		
MW #1	_____	(102.35)
MW #2	_____	(102.47)
MW #3	_____	(103.43)
MW #4	_____	(102.55)
⊕ MW #1 (93.82)	_____	Groundwater Elevation as of 06/26/07.

BP AMERICA PRODUCTION COMPANY
GCU # 194

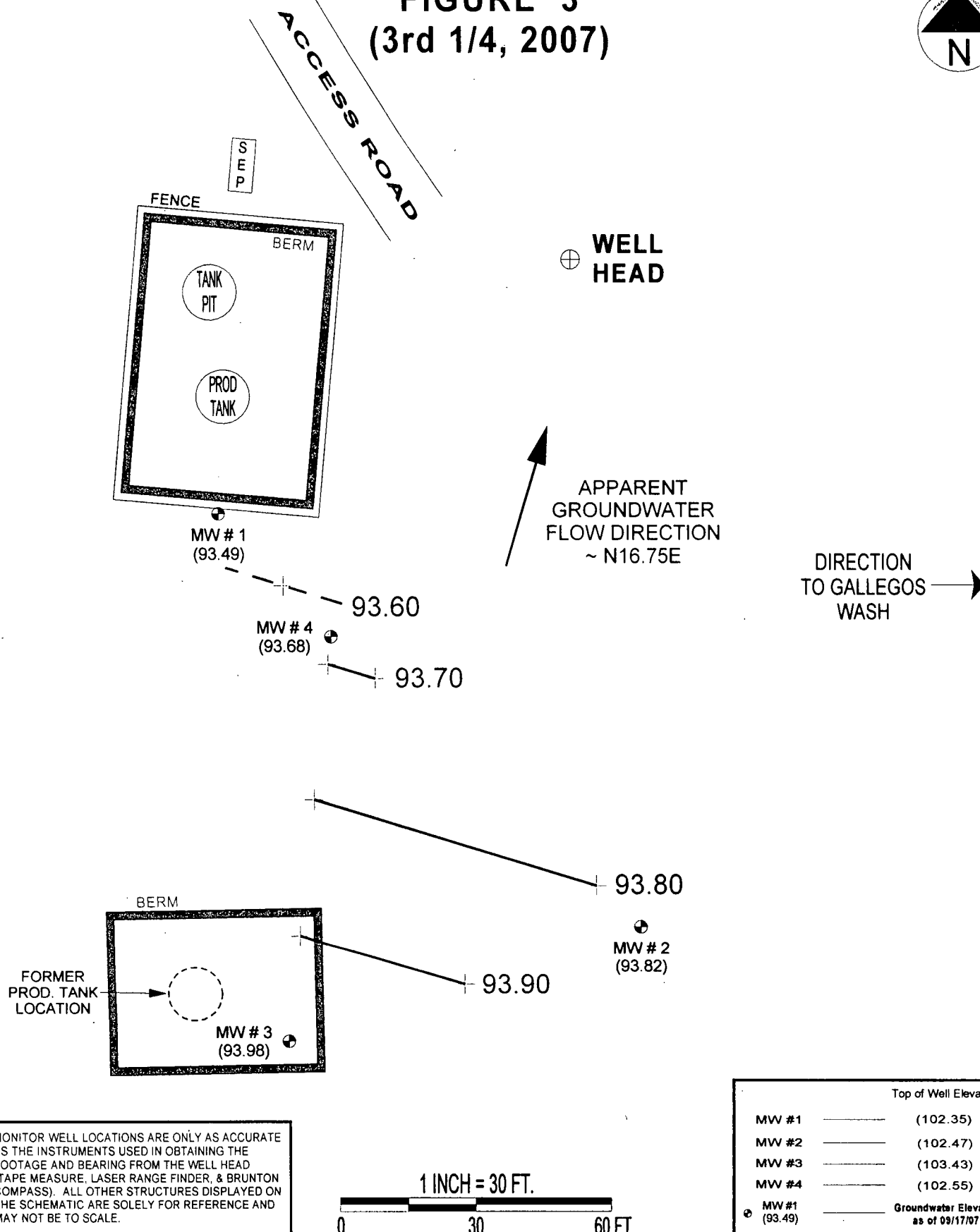
NW/4 NW/4 SEC. 5, T27N, R12W, NMPM
SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.
CONSULTING PETROLEUM / RECLAMATION SERVICES
P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413
PHONE: (505) 632-1199

PROJECT: MW SAMPLING
DRAWN BY: NJV
FILENAME: 06-25-07-GW.SKF
REVISED: 06-25-07 NJV

**GROUNDWATER
CONTOUR
MAP**
06/07

FIGURE 3
(3rd 1/4, 2007)



MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE AND BEARING FROM THE WELL HEAD (TAPE MEASURE, LASER RANGE FINDER, & BRUNTON COMPASS). ALL OTHER STRUCTURES DISPLAYED ON THE SCHEMATIC ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

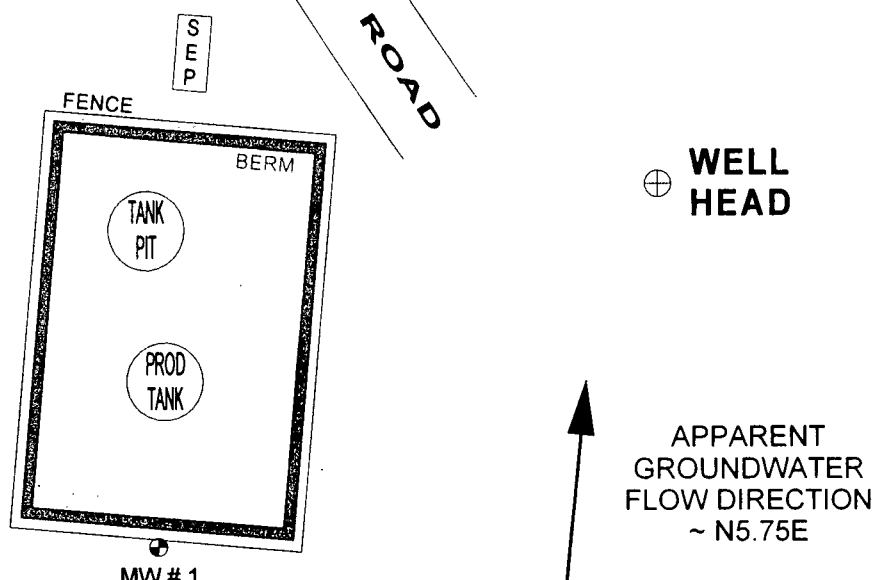
BP AMERICA PRODUCTION COMPANY
GCU # 194
NW/4 NW/4 SEC. 5, T27N, R12W, NMPM
SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.
CONSULTING PETROLEUM / RECLAMATION SERVICES
P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413
PHONE: (505) 632-1199

PROJECT: MW SAMPLING
DRAWN BY: NJV
FILENAME: 09-17-07-GW.SKF
REVISED: 09-17-07 NJV

GROUNDWATER
CONTOUR
MAP
09/07

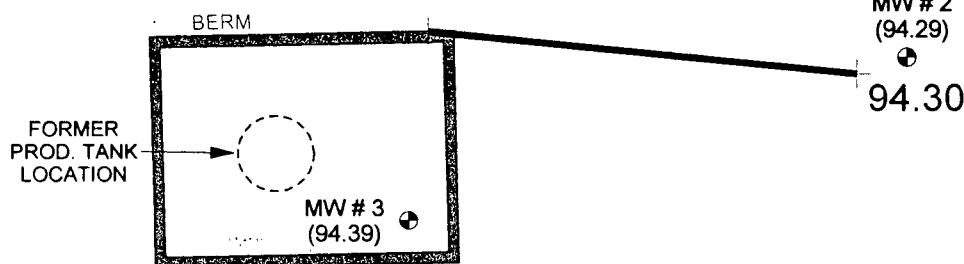
FIGURE 4
(4th 1/4, 2007)



DIRECTION
TO GALLEGOS
WASH →

94.10
MW # 4
(94.12)

94.20



MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE AND BEARING FROM THE WELL HEAD (TAPE MEASURE, LASER RANGE FINDER, & BRUNTON COMPASS). ALL OTHER STRUCTURES DISPLAYED ON THE SCHEMATIC ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

1 INCH = 30 FT.
0 30 60 FT.

Top of Well Elevation	
MW #1	(102.35)
MW #2	(102.47)
MW #3	(103.43)
MW #4	(102.55)
● MW #1 (91.12)	Groundwater Elevation as of 11/14/07.

BP AMERICA PRODUCTION COMPANY
GCU # 194
NW/4 NW/4 SEC. 5, T27N, R12W, NMPM
SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.
CONSULTING PETROLEUM / RECLAMATION SERVICES
P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413
PHONE: (505) 632-1199

PROJECT: MW SAMPLING
DRAWN BY: NJV
FILENAME: 11-14-07-GW.SKF
REVISED: 11-14-07 NJV

GROUNDWATER
CONTOUR
MAP
11/07

BLAGG ENGINEERING, INC.**MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA**CLIENT: **BP AMERICA PROD. CO.**CHAIN-OF-CUSTODY #: **N / A**

GCU # 194 - SEPARATOR PIT

LABORATORY (S) USED: **HALL ENVIRONMENTAL**

UNIT D, SEC. 5, T27N, R12W

Date: **August 3, 2006**SAMPLER: **N J V**Filename: **08-03-06.WK4**PROJECT MANAGER: **N J V**

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
MW - 1	102.35		-	14.50	-	-	-	-	-
MW - 2	102.47		-	14.50	-	-	-	-	-
MW - 3	103.43			14.00	-	-	-	-	-
DEPTH TO PRODUCT (FT.) =				PRODUCT THICKNESS (FT.) =					
MW - 4	102.55	93.73	8.82	17.15	0810	7.33	800	21.6	4.00

INSTRUMENT CALIBRATIONS =

DATE & TIME =

7.00	2,800
08/06/06	0755

NOTES: Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$
(i.e. 2" MW $r = (1/12) \text{ ft.}$ $h = 1 \text{ ft.}$) (i.e. 4" MW $r = (2/12) \text{ ft.}$ $h = 1 \text{ ft.}$)

Ideally a minimum of three (3) wellbore volumes:

2.00" well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2"

Excellent recovery in MW #4. Collected sample from MW #4 for BTEX analysis only.

Top of casing MW #1 ~ 2.40 ft., MW #2 ~ 2.55 ft., MW #3 ~ 2.40 ft., MW #4 ~ 2.60 ft. above grade

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Aug-06

CLIENT: Blagg Engineering
Lab Order: 0608081
Project: GCU #194
Lab ID: 0608081-01

Client Sample ID: MW#4
Collection Date: 8/3/2006 8:10:00 AM
Date Received: 8/4/2006
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	91	1.0		µg/L	1	8/7/2006 1:50:28 PM
Toluene	ND	1.0		µg/L	1	8/7/2006 1:50:28 PM
Ethylbenzene	130	5.0		µg/L	5	8/7/2006 9:51:37 PM
Xylenes, Total	ND	3.0		µg/L	1	8/7/2006 1:50:28 PM
Surr: 4-Bromofluorobenzene	104	72.2-125		%REC	1	8/7/2006 1:50:28 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

1. This form is to be filled out by the person who is responsible for the custody of the sample. It is to be filled out at the time the sample is received and before the sample is analyzed. It is to be filled out by the person who is responsible for the custody of the sample. It is to be filled out at the time the sample is received and before the sample is analyzed. It is to be filled out by the person who is responsible for the custody of the sample. It is to be filled out at the time the sample is received and before the sample is analyzed.

CHAIN-OF-CUSTODY RECORD

Client: BLAGG ENR./BP AMERICA

Address: P.O. BOX 87

B.F.D. NM 87413

Phone #: 632-1199

Fax #:

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

0608081

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

0608081

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

0608081

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

0608081

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

0608081

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

0608081

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

0608081

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

0608081

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

0608081

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

0608081

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

0608081

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

0608081

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

0608081

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

0608081

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

0608081

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

0608081

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

0608081

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

0608081

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

0608081

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

0608081

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

0608081

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

0608081

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

0608081

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

0608081

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

0608081

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

0608081

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

0608081

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

0608081

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

0608081

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

0608081

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

0608081

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: GCU #194

Work Order: 0608081

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 5ML RB									
		MBLK							
					Batch ID:	R20190	Analysis Date:	8/7/2006 8:55:16 AM	
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	3.0						
Sample ID: 100NG BTEX LCS									
		LCS							
					Batch ID:	R20190	Analysis Date:	8/7/2006 5:21:30 PM	
Benzene	22.37	µg/L	1.0	112	85	115			
Toluene	22.31	µg/L	1.0	112	85	118			
Ethylbenzene	22.12	µg/L	1.0	111	85	116			
Xylenes, Total	45.47	µg/L	3.0	112	85	119			
Sample ID: 100NG BTEX LCSD									
		LCSD							
					Batch ID:	R20190	Analysis Date:	8/7/2006 5:51:39 PM	
Benzene	22.11	µg/L	1.0	111	85	115	1.17	27	
Toluene	21.63	µg/L	1.0	108	85	118	3.09	19	
Ethylbenzene	21.93	µg/L	1.0	110	85	116	0.863	10	
Xylenes, Total	45.31	µg/L	3.0	111	85	119	0.361	13	

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 BLAGG

Date and Time Received:

8/7/2006

Work Order Number 0608081

Received by GLS

Checklist completed by

Signature

Date

Matrix

Carrier name Greyhound

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Not Shipped <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	
Container/Temp Blank temperature?	4°	4° C ± 2 Acceptable		If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY #: N / A

GCU # 194 - SEPARATOR PIT
UNIT D, SEC. 5, T27N, R12W

LABORATORY (S) USED: HALL ENVIRONMENTAL

Date: June 25, 2007

SAMPLER: N J V

Filename: 06-25-07.WK4

PROJECT MANAGER: N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	102.35	93.82	8.53	14.50	-	-	-	-	-
2	102.47	94.12	8.35	14.50	-	-	-	-	-
3	103.43	94.22 *	9.22	15.00	-	-	-	-	1.50
DEPTH TO PRODUCT (FT.) =			9.18	PRODUCT THICKNESS (FT.) =			0.10		
4	102.55	93.95	8.60	17.15	0600	7.44	4,800	13.1	4.25

INSTRUMENT CALIBRATIONS =

DATE & TIME =

7.00	2,800
06/25/07	0550

NOTES: Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$
(i.e. 2" MW $r = (1/12) \text{ ft}$. $h = 1 \text{ ft}$.) (i.e. 4" MW $r = (2/12) \text{ ft}$. $h = 1 \text{ ft}$.)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2 "

* INDICATES PRODUCT SPECIFIC GRAVITY ASSUMED TO = 0.65 .

Excellent recovery in MW # 4 . Murky brown in appearance . Collected sample from MW # 4 for BTEX analysis only . Purged MW # 3 to total depth , then terminated . Very black in appearance with strong physical hydrocarbon presence .

Top of casing MW # 1 ~ 2.40 ft. , MW # 2 ~ 2.55 ft. , MW # 3 ~ 2.40 ft. , MW # 4 ~ 2.60 ft. above grade

Hall Environmental Analysis Laboratory, Inc.

Date: 02-Jul-07

CLIENT: Blagg Engineering
Lab Order: 0706381
Project: GCU #194
Lab ID: 0706381-01

Client Sample ID: MW #4
Collection Date: 6/25/2007 6:00:00 AM
Date Received: 6/26/2007
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	7/1/2007 9:27:16 AM
Toluene	ND	1.0		µg/L	1	7/1/2007 9:27:16 AM
Ethylbenzene	ND	1.0		µg/L	1	7/1/2007 9:27:16 AM
Xylenes, Total	ND	2.0		µg/L	1	7/1/2007 9:27:16 AM
Surr: 4-Bromofluorobenzene	78.7	70.2-105		%REC	1	7/1/2007 9:27:16 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
RL Reporting Limit

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: GCU #194

Work Order: 0706381

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: SW8021

Sample ID: 5ML REAGENT BLA

MBLK

Batch ID: R24198 Analysis Date: 6/30/2007 6:59:05 PM

Benzene	ND	µg/L	1.0
Toluene	ND	µg/L	1.0
Ethylbenzene	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	2.0

Sample ID: 100NG BTEX LCS

LCS

Batch ID: R24198 Analysis Date: 6/30/2007 11:44:25 PM

Benzene	19.42	µg/L	1.0	97.1	85.9	113
Toluene	19.80	µg/L	1.0	99.0	86.4	113
Ethylbenzene	20.03	µg/L	1.0	100	83.5	118
Xylenes, Total	59.67	µg/L	2.0	99.4	83.4	122

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	Spiked recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name BLAGG

Date and Time Received:

6/26/2007

Work Order Number 0706381

Received by AT

Checklist completed by

Signature

Date

Matrix

Carrier name Greyhound

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?

8°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding

Comments:

Corrective Action

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY #: N / A

GCU # 194 - SEPARATOR PIT
UNIT D, SEC. 5, T27N, R12W

LABORATORY (S) USED: HALL ENVIRONMENTAL

Date: September 17, 2007

SAMPLER: N J V

Filename: 09-17-07.WK4

PROJECT MANAGER: N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	102.35	93.49	8.86	14.50	-	-	-	-	-
2	102.47	93.82	8.65	14.50	-	-	-	-	-
3	103.43	93.98 *	9.45	15.00	-	-	-	-	1.25
DEPTH TO PRODUCT (FT.) =			9.45	PRODUCT THICKNESS (FT.) =			0.01		
4	102.55	93.68	8.87	17.15	0950	7.22	6,500	21.7	4.00

INSTRUMENT CALIBRATIONS =

DATE & TIME =

7.00	2,800
09/17/07	0945

NOTES: Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.
(i.e. 2" MW $r = (1/12) \text{ ft.}$ $h = 1 \text{ ft.}$) (i.e. 4" MW $r = (2/12) \text{ ft.}$ $h = 1 \text{ ft.}$)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

* INDICATES PRODUCT SPECIFIC GRAVITY ASSUMED TO = 0.65 .

Excellent recovery in MW # 4 . Murky brown in appearance . Collected sample from MW # 4 for BTEX analysis only . Purged MW # 3 to total depth , then terminated . Very black in appearance with strong physical hydrocarbon presence .

Top of casing MW # 1 ~ 2.40 ft. , MW # 2 ~ 2.55 ft. , MW # 3 ~ 2.40 ft. , MW # 4 ~ 2.60 ft. above grade

Hall Environmental Analysis Laboratory, Inc.

Date: 27-Sep-07

CLIENT: Blagg Engineering
Lab Order: 0709207
Project: GCU #194
Lab ID: 0709207-01

Client Sample ID: MW#4
Collection Date: 9/17/2007 9:50:00 AM
Date Received: 9/18/2007
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	9/26/2007 9:45:26 PM
Toluene	ND	1.0		µg/L	1	9/26/2007 9:45:26 PM
Ethylbenzene	ND	1.0		µg/L	1	9/26/2007 9:45:26 PM
Xylenes, Total	ND	2.0		µg/L	1	9/26/2007 9:45:26 PM
Surr: 4-Bromofluorobenzene	80.8	70.2-105		%REC	1	9/26/2007 9:45:26 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
RL Reporting Limit

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: GCU #194

Work Order: 0709207

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: SW8021

Sample ID: 5ML RB

MBLK

Batch ID: R25334 Analysis Date: 9/26/2007 10:12:19 AM

Benzene	ND	µg/L	1.0
Toluene	ND	µg/L	1.0
Ethylbenzene	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	2.0

Sample ID: 100NG BTEX LCS

LCS

Batch ID: R25334 Analysis Date: 9/26/2007 9:15:28 PM

Benzene	20.66	µg/L	1.0	103	85.9	113
Toluene	20.61	µg/L	1.0	103	86.4	113
Ethylbenzene	20.22	µg/L	1.0	101	83.5	118
Xylenes, Total	60.06	µg/L	2.0	100	83.4	122

Qualifiers:

E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name BLAGG

Date and Time Received:

9/18/2007

Work Order Number 0709207

Received by ARS

Checklist completed by

Signature

[Signature]

9/18/07

Date

Matrix

Carrier name UPS

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?

3°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding

Comments:

Corrective Action

BLAGG ENGINEERING, INC.**MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA**CLIENT: **BP AMERICA PROD. CO.**CHAIN-OF-CUSTODY #: **N / A****GCU # 194 - SEPARATOR PIT
UNIT D, SEC. 5, T27N, R12W**LABORATORY (S) USED: **HALL ENVIRONMENTAL**Date: **November 14, 2007**SAMPLER: **N J V**Filename: **11-14-07.WK4**PROJECT MANAGER: **N J V**

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)	
1	102.35	93.97	8.38	14.50	-	-	-	-	-	
2	102.47	94.29	8.18	14.50	-	-	-	-	-	
3	103.43	94.39 *	9.04	15.00	-	-	-	-	2.00	
DEPTH TO PRODUCT (FT.) =			9.04	DEPTH TO WATER (FT.) =			9.05	PRODUCT THICKNESS (FT.) =		0.01
4	102.55	94.12	8.43	17.15	1010	7.57	7,100	14.5	4.25	

INSTRUMENT CALIBRATIONS =

DATE & TIME =

7.00	2,800
11/14/07	1000

NOTES: Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.
(i.e. 2" MW $r = (1/12) \text{ ft}$. $h = 1 \text{ ft}$.) (i.e. 4" MW $r = (2/12) \text{ ft}$. $h = 1 \text{ ft}$.)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2".

* INDICATES PRODUCT SPECIFIC GRAVITY ASSUMED TO = 0.65 .

Excellent recovery in MW #4. Murky brown in appearance. Collected sample from MW #4 for BTEX analysis only. Purged MW #3 to total depth. Very black in appearance with strong physical hydrocarbon presence.

Top of casing MW #1 ~ 2.40 ft., MW #2 ~ 2.55 ft., MW #3 ~ 2.40 ft., MW #4 ~ 2.60 ft. above grade

Hall Environmental Analysis Laboratory, Inc.

Date: 26-Nov-07

CLIENT: Blagg Engineering
Lab Order: 0711290
Project: GCU #194
Lab ID: 0711290-01

Client Sample ID: MW #4
Collection Date: 11/14/2007 10:10:00 AM
Date Received: 11/19/2007
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	31	1.0		µg/L	1	11/21/2007 11:30:36 PM
Toluene	ND	1.0		µg/L	1	11/21/2007 11:30:36 PM
Ethylbenzene	26	1.0		µg/L	1	11/21/2007 11:30:36 PM
Xylenes, Total	ND	2.0		µg/L	1	11/21/2007 11:30:36 PM
Surr: 4-Bromofluorobenzene	89.9	70.2-105		%REC	1	11/21/2007 11:30:36 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com



ANALYSIS REQUEST

[illegible]

Remarks:

CHAIN-OF-CUSTODY RECORD				QA/QC Package:				
				Std <input type="checkbox"/> Level 4 <input type="checkbox"/>				
				Other:				
Client: <u>BLACK ENGR. / BP AMERICA</u>				Project Name: <u>GCM #194</u>				
Address: <u>P.O. BOX 87</u>				Project #: <u>NV</u>				
<u>BLFD, NM 87413</u>				Project Manager: <u>NV</u>				
Phone #: <u>632-1199</u>				Sampler: <u>NV</u>				
Fax #:				Sample Temperature: <u>12</u>				
Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative			HEAL No.
					HgCl ₂	HNO ₃		
<u>11/14/07</u>	<u>1010</u>	<u>WATER</u>	<u>MUN #4</u>	<u>2-40ml</u>	<u>✓</u>			<u>0711290</u>
Date: <u>11/15/07</u>	Time: <u>1415</u>	Relinquished By: (Signature) <u>[Signature]</u>		Received By: (Signature) <u>[Signature]</u>		HEAL No. <u>11912821</u>		
Date: <u>11/15/07</u>	Time: <u>1415</u>	Relinquished By: (Signature) <u>[Signature]</u>		Received By: (Signature) <u>[Signature]</u>				

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: GCU #194

Work Order: 0711290

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: EPA Method 8021B: Volatiles

Sample ID: 5ML RB

MBLK

Batch ID: R26192 Analysis Date: 11/21/2007 9:29:58 AM

Benzene	ND	µg/L	1.0
Toluene	ND	µg/L	1.0
Ethylbenzene	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	2.0

Sample ID: 100NG BTEX LCS

LCS

Batch ID: R26192 Analysis Date: 11/21/2007 5:22:13 PM

Benzene	20.11	µg/L	1.0	101	85.9	113
Toluene	20.53	µg/L	1.0	103	86.4	113
Ethylbenzene	20.99	µg/L	1.0	105	83.5	118
Xylenes, Total	67.69	µg/L	2.0	113	83.4	122

Sample ID: 100NG BTEX LCSD

LCSD

Batch ID: R26192 Analysis Date: 11/21/2007 5:52:17 PM

Benzene	20.18	µg/L	1.0	101	85.9	113	0.387	27
Toluene	20.09	µg/L	1.0	100	86.4	113	2.21	19
Ethylbenzene	20.67	µg/L	1.0	103	83.5	118	1.55	10
Xylenes, Total	64.06	µg/L	2.0	107	83.4	122	5.52	13

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 **BLAGG**

Date Received:

11/19/2007

Work Order Number 0711290

Received by: **ARS**

Checklist completed by:

Signature

Date

Sample ID labels checked by

Initials

Matrix

Carrier name **UPS**

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