AE Order Number Banner

Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.

App Number: pCS1731132655

3RP - 1057

BP AMERICA

2/6/2018

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: BP America Production Co.	Contact: Steve Moskal
Address: 380 Airport Road, Durango, CO 81303	Telephone No.: 505-330-9179
Facility Name: Sandoval Gas Com A 001A	Facility Type: Natural Gas Well

Surface Owner: Federal	Mineral Owner: Federal	API No. 300422294

4522294

3RP-1057

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County: San Juan
C	35	30N	09W	1,150	North	1,590	West	

Latitude 36.77166° **Longitude** -107.75353°

NATURE OF RELEASE

Type of Release: produced water, oil	Volume of Release: unknown	Volume Recovered: unknown
Source of Release: Compressor pit - historical	Date and Hour of Occurrence: unknown	Date and Hour of Discovery: 10/28/2003
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

OIL CONS. DIV DIST. 3

JAN 31 2018

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action. * A historical compressor discharge pit was noted in a 2003 pit closure. The pit was sampled with results above the pit closure standards as well as the spill and release guidelines. BP installed one soil boring with refusal at ~17' bgs. with a soil sample collected at that depth. This sample too was above the site closure standards. Groundwater is estimated to be 30-35' bgs. BP excavated approximately 50 cubic yards of soil in 2006 and treated with onsite composting and advanced one boring.

Describe Area Affected and Cleanup Action Taken.* BP has installed a total of 4 groundwater monitoring wells; MW-1-dry; MW-2- LNAPL; MW-3-dry; MW-4-dry. Due to either dry wells or free product, there is no groundwater quality data available. The former third-party gathering company has identified groundwater impacts as well. Attached is the soil boring data from the monitoring well installations.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Steve Moskal	~~Approved by~~ Environmental Specialist:	
Title: Field Environmental Coordinator	Approval Date: 2/6/18	Expiration Date:
E-mail Address: steven.moskal@bp.com	Conditions of Approval:	Attached ☐
Date: January 30, 2018 Phone: 505-326-9497	Additional Remediation will Be Required.	

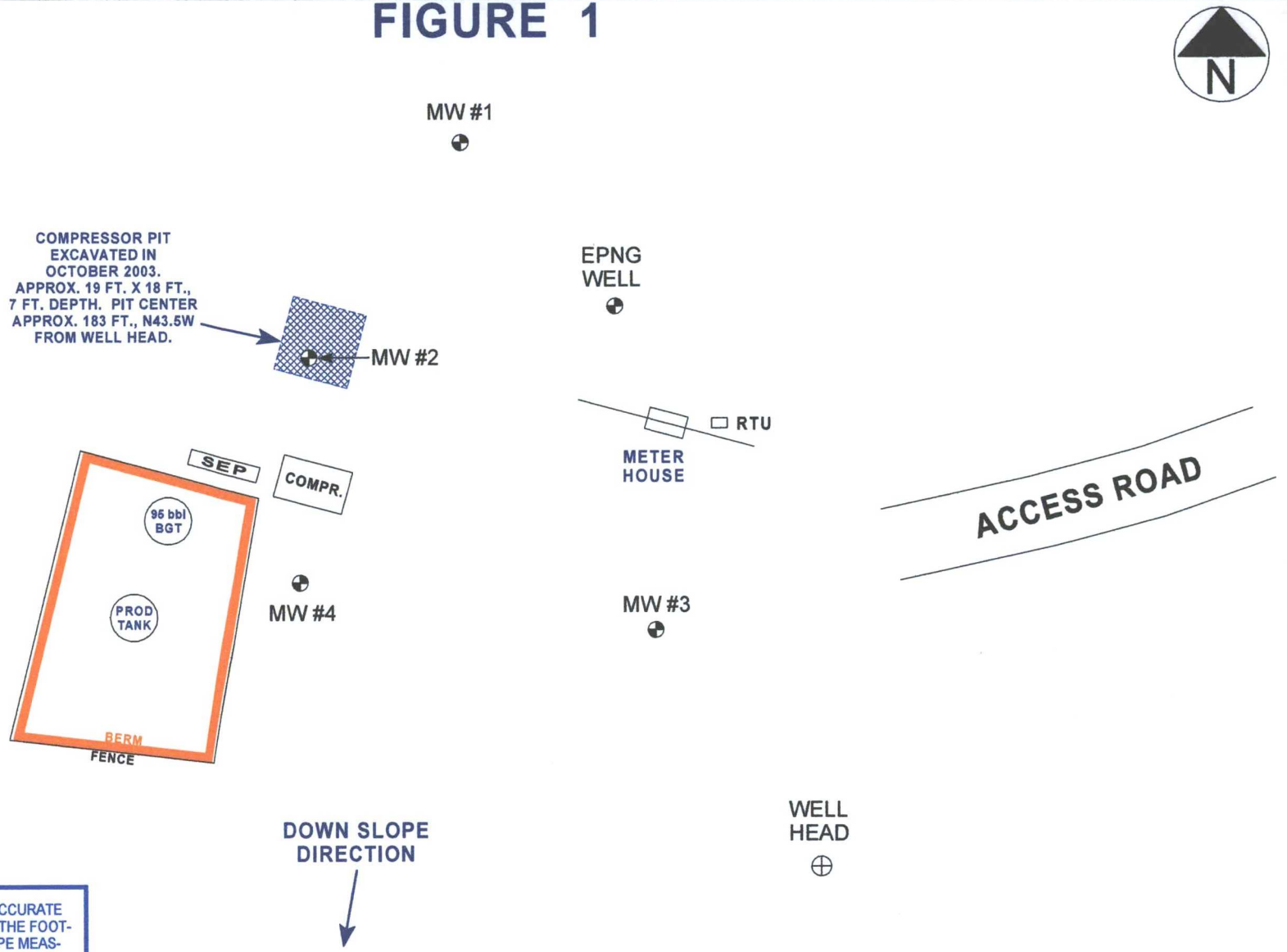
* Attach Additional Sheets If Necessary

#NCS 1803742861

3RP-1057

22

FIGURE 1



MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (TAPE MEASURE, LASER RANGE FINDER, & BRUNTON COMPASS). ALL OTHER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE. MAGNETIC DECLINATION USED ~ 10° E.

BP AMERICA PRODUCTION CO.
SANDOVAL GC A # 1A
NE/4 NW/4 SEC. 35, T30N, R9W
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 INSTALLATIONS
DRAWN BY: NJV
FILENAME: SANDOVAL GC A 1A-SM3.SKF
REVISED: 12-08-11

SITE MAP
11/11

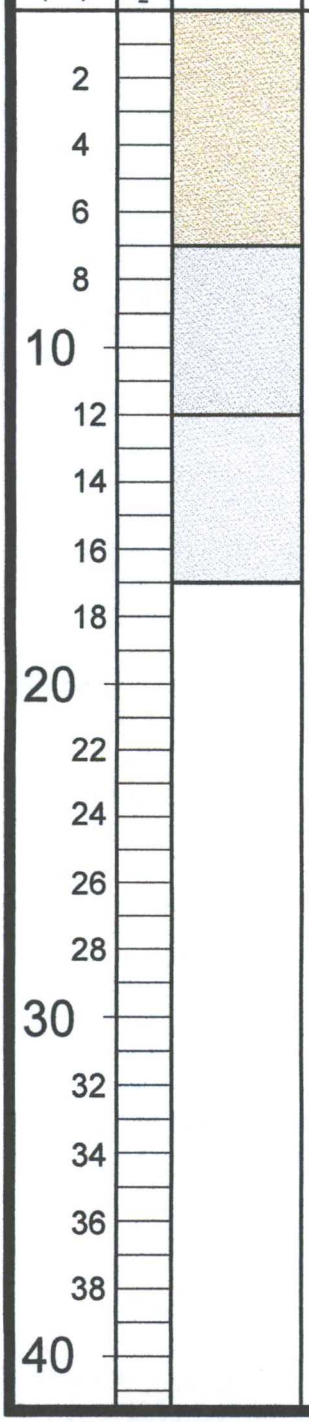
BLAGG ENGINEERING, Inc.

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

BORE / TEST HOLE REPORT

CLIENT:	BP AMERICA PRODUCTION CO.
LOCATION NAME:	SANDOVAL GC A # 1A COMPRESSOR PIT UNIT C, SEC. 35, T30N, R9W
CONTRACTOR:	BLAGG ENGINEERING, INC. / ENVIROTECH, INC.
EQUIPMENT USED:	MOBILE DRILL RIG (CME 75)
BORING LOCATION:	180 FEET, N40W FROM WELL HEAD.

BORING #.....	BH1
MW #.....	NA
PAGE #.....	1
DATE STARTED	09/20/06
DATE FINISHED	09/20/06
OPERATOR.....	DP
PREPARED BY	NJV



FIELD CLASSIFICATION AND REMARKS

GROUND SURFACE

DARK YELLOWISH ORANGE TO DARK YELLOWISH BROWN SAND (FILL MATERIAL), NON COHESIVE, SLIGHTLY MOIST, FIRM TO LOOSE, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (0.0 - 7.0 FT. BELOW GRADE).

DARK YELLOWISH BROWN / MEDIUM GRAY SAND INTERMIXED, NON COHESIVE, SLIGHTLY MOIST, FIRM, STRONG APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (7.0 - 12.0 FT. BELOW GRADE).

MEDIUM GRAY SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM, STRONG APPARENT HYDRO-CARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (12.0 - 17.0 FT. BELOW GRADE).

BH1 @ 15-17 FT. TIME: 1218 BLOW COUNT = 50 PER 20 INCHES COLLECTED WITH SPLIT SPOON SAMPLER.
TPH = 10,000 ppm , BENZENE = 19 ppm , TOTAL BTEX = 1,183 ppm , CHLORIDE = 5.5 ppm.

AUGER REFUSAL - COBBLES ENCOUNTERED AT 17 FEET BELOW GRADE.

NOTES:
- SAND.

OVM - Organic Vapor Meter or Photo-ionization Detector (PID).
TPH - Total Petroleum Hydrocarbons EPA Method 8015B.
BTEX - benzene , toluene, ethylbenzene, total xylenes EPA Method 8021B.
ppm - Parts per million (unit value).

OVM CALIBRATION = 51.3 ppm with 100 ppm Isobutylence gas & response factor set @ 0.52 ; DATE - 09/19/06, TIME - 1535.

DRAWING: SANDOVAL GC A 1A BH1.SKF | DATE: 03/19/07 | DWN BY: NJV

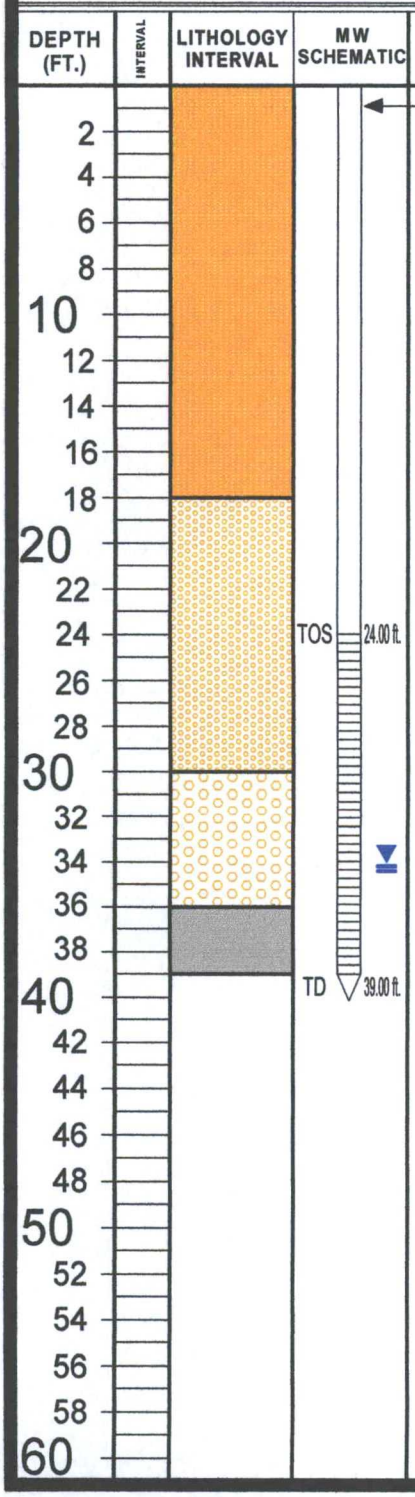
BLAGG ENGINEERING, INC.
P.O. BOX 87
BLOOMFIELD, NM 87413
(505) 632-1199

MW # 1

BORE / TEST HOLE REPORT

CLIENT: BP AMERICA PRODUCTION CO.
LOCATION NAME: SANDOVAL GC A # 1A COMPRESSOR PIT UNIT C, SEC. 35, T30N, R9W
CONTRACTOR: BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.
EQUIPMENT USED: MOBILE DRILL RIG (CME 75) - TUBEX SYSTEM
BORING LOCATION: 205 FEET, N26W FROM WELL HEAD.

BORING #..... BH - 3
MW #..... 1
PAGE #..... 2
DATE STARTED 12/01/11
DATE FINISHED 12/02/11
OPERATOR..... KP
LOGGED BY..... JCB



FIELD CLASSIFICATION AND REMARKS

GROUND SURFACE

TOP OF CASING APPROX. 2.75 FT. ABOVE GRADE.

DARK YELLOWISH BROWN SILTY SAND, NON COHESIVE, DRY TO MOIST, FIRM, THIN LAYERS OF ROUNDED PEBBLES TO 5.0 FEET BELOW GRADE, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (0.0 - 18.0 FT. BELOW GRADE).

SAME AS ABOVE EXCEPT WITH GRAVEL (18.0 - 30.0 FT. BELOW GRADE).

SAME AS ABOVE EXCEPT WITH COBBLE TO BOULDER SIZE GRAVEL (30.0 - 36.0 FT. BELOW GRADE).

GROUNDWATER ~ 33.97 ft. BELOW GRADE ; MEASURED 12/09/11.

BLUE/VERY LIGHT GRAY SILTSTONE TO CLAYSTONE, NON COHESIVE, DRY, DENSE TO VERY DENSE, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (36.0 - 39.0 FT. BELOW GRADE).

Monitor well dry to TD (5,677.94' elevation) (40.4' below casing top), measured on 11/09/2017

NOTES:
- SILTY SAND.
- SILTY SAND & GRAVEL.
- SILTSTONE / CLAYSTONE.

TOS - Top of screen of monitor well.
TD - Total depth/bottom extent of monitor well.

Monitor well consist of 2 inch PVC piping - casing from 1.00 ft. above grade to 24.00 ft. below grade, 0.020 slotted screen between 24.00 to 39.00 ft. below grade, sand packed annular to 22.0 ft. below grade, bentonite grout between 20.0 to 22.0 ft. below grade. Steel protector encompassing above grade casing and secured with padlock.

DRAWING: SANDOVAL GC A 1A MW1-BH3. SKF | DATE: 12/07/11 | DWN BY: NJV

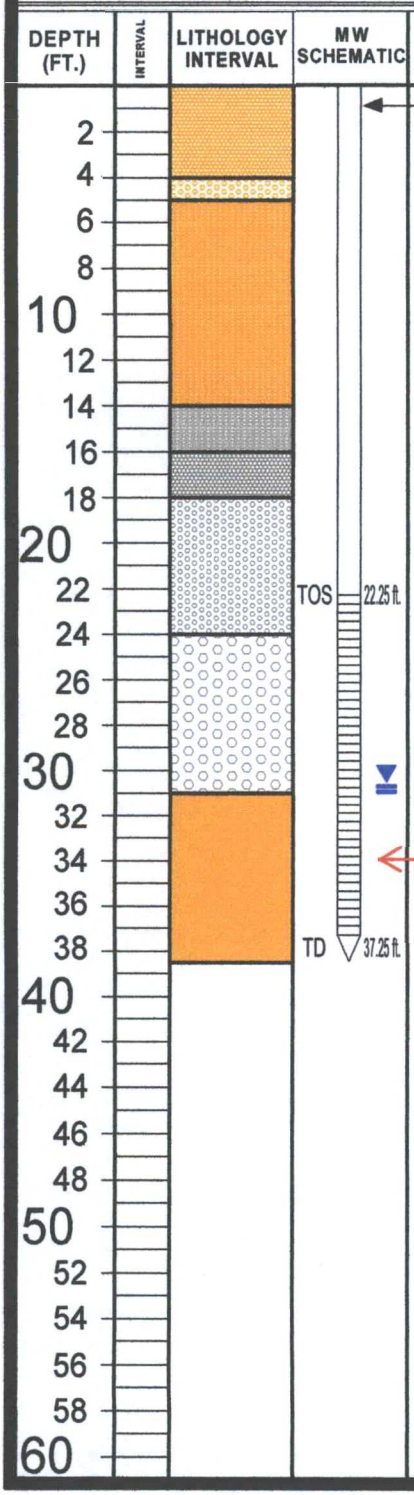
BLAGG ENGINEERING, INC.
P.O. BOX 87
BLOOMFIELD, NM 87413
(505) 632-1199

MW # 2

BORE / TEST HOLE REPORT

CLIENT:	BP AMERICA PRODUCTION CO.
LOCATION NAME:	SANDOVAL GC A # 1A COMPRESSOR PIT UNIT C, SEC. 35, T30N, R9W
CONTRACTOR:	BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.
EQUIPMENT USED:	MOBILE DRILL RIG (CME 75) - TUBEX SYSTEM
BORING LOCATION:	182.7 FEET, N45W FROM WELL HEAD.

BORING #.....	BH - 2
MW #.....	2
PAGE #.....	3
DATE STARTED	08/11/11
DATE FINISHED	08/22/11
OPERATOR.....	KP
LOGGED BY.....	NJV/JCB



FIELD CLASSIFICATION AND REMARKS

GROUND SURFACE

TOP OF CASING APPROX. 2.75 FT. ABOVE GRADE.

PALE YELLOWISH BROWN SAND, NON COHESIVE, DRY TO MOIST, FIRM, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (0.0 - 4.0 FT. BELOW GRADE).

SAME AS ABOVE EXCEPT WITH MINOR PEA SIZE GRAVEL (4.0 - 5.0 FT. BELOW GRADE).

DARK YELLOWISH BROWN SILTY SAND TO SILTY CLAY, COHESIVE, DRY TO MOIST, FIRM TO STIFF, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (4.0 - 14.0 FT. BELOW GRADE).

SAME AS ABOVE EXCEPT LIGHT GRAY AND WITH AN APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY (14.0 - 16.0 FT. BELOW GRADE).

LIGHT TO MEDIUM GRAY SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM, STRONG APPARENT HYDRO - CARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (16.0 - 18.0 FT. BELOW GRADE).

SAME AS ABOVE EXCEPT WITH GRAVEL (18.0 - 24.0 FT. BELOW GRADE).

SAME AS ABOVE EXCEPT WITH COBBLE TO BOULDER SIZE GRAVEL (24.0 - 31.0 FT. BELOW GRADE).

GROUNDWATER ~ 30.79 ft. BELOW GRADE ; MEASURED 08/25/11.

PALE YELLOWISH ORANGE SILTSTONE TO CLAYSTONE, NON COHESIVE, DRY, DENSE TO VERY DENSE, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (31.0 - 38.5 FT. BELOW GRADE).

2.7' product, top at 5,680.72' elevation (36.22' below casing top), measured on 11/08/2017

NOTES:

- SAND.
- SILTY SAND TO SILTY CLAY.
- SAND & GRAVEL.
- SILTSTONE / CLAYSTONE.

TOS - Top of screen of monitor well.
TD - Total depth/bottom extent of monitor well.

Monitor well consist of 2 inch PVC piping - casing from 2.75 ft. above grade to 22.25 ft. below grade, 0.020 slotted screen between 22.25 to 37.25 ft. below grade, sand packed annular to 20.0 ft. below grade, bentonite grout between 17.0 to 20.0 ft. below grade. Steel protector encompassing above grade casing and secured with padlock.

DRAWING: SANDOVAL GC A 1A MW2-BH2. SKF | DATE: 08/25/11 | DWN BY: NJV

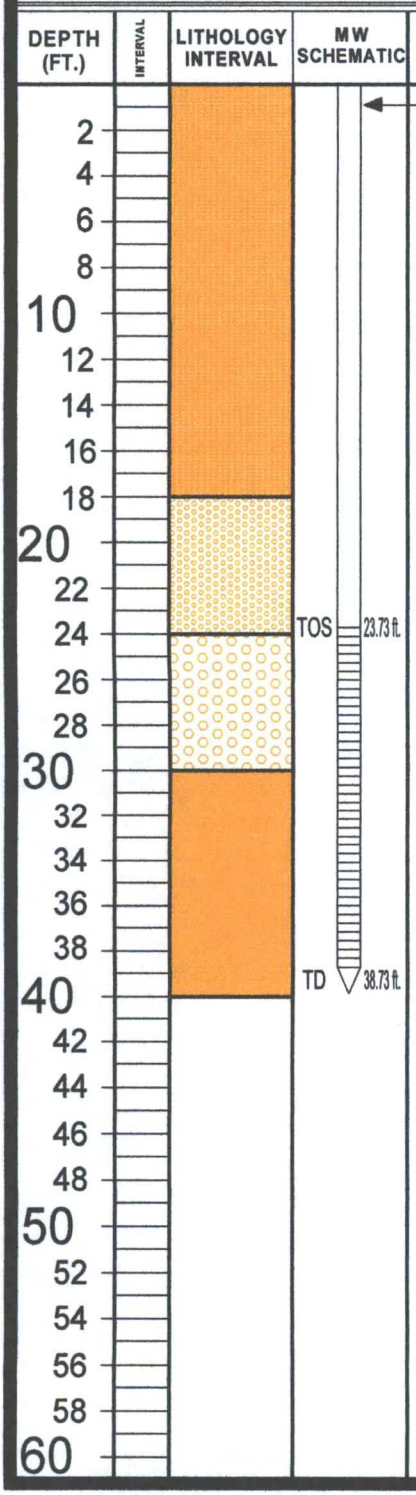
BLAGG ENGINEERING, INC.
P.O. BOX 87
BLOOMFIELD, NM 87413
(505) 632-1199

MW # 3

BORE / TEST HOLE REPORT

CLIENT:	BP AMERICA PRODUCTION CO.
LOCATION NAME:	SANDOVAL GC A # 1A COMPRESSOR PIT UNIT C, SEC. 35, T30N, R9W
CONTRACTOR:	BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.
EQUIPMENT USED:	MOBILE DRILL RIG (CME 75) - TUBEX SYSTEM
BORING LOCATION:	73 FEET, N34.5W FROM WELL HEAD.

BORING #.....	BH - 4
MW #.....	3
PAGE #.....	4
DATE STARTED	12/05/11
DATE FINISHED	12/05/11
OPERATOR.....	KP
LOGGED BY.....	JCB



FIELD CLASSIFICATION AND REMARKS

GROUND SURFACE

TOP OF CASING APPROX. AT GRADE.

DARK YELLOWISH BROWN SILTY SAND, NON COHESIVE, DRY TO MOIST, FIRM, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (0.0 - 18.0 FT. BELOW GRADE).

SAME AS ABOVE EXCEPT WITH GRAVEL (18.0 - 24.0 FT. BELOW GRADE).

SAME AS ABOVE EXCEPT WITH COBBLE TO BOULDER SIZE GRAVEL (24.0 - 30.0 FT. BELOW GRADE).

DARK YELLOWISH ORAGEN SILTSTONE TO CLAYSTONE, NON COHESIVE, DRY, DENSE TO VERY DENSE, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (30.0 - 40.0 FT. BELOW GRADE).

Monitor well dry to TD (5,675.08' elevation) (39.2' below casing top), measured on 11/09/2017

NOTES:
- SILTY SAND.
- SILTY SAND & GRAVEL.
- SILTSTONE / CLAYSTONE.

TOS - Top of screen of monitor well.
TD - Total depth/bottom extent of monitor well.

GROUNDWATER NOT PRESENT DURING 12/09/11 GAUGING.

Monitor well consist of 2 inch PVC piping - casing from grade to 23.73 ft. below grade, 0.020 slotted screen between 23.73 to 38.73 ft. below grade, sand packed annular to 22.0 ft. below grade, bentonite grout between 20.0 to 22.0 ft. below grade. Flush mount protector encompassing exposed casing. Secured well with locking cap and padlock.

DRAWING: SANDOVAL GC A 1A MW3-BH4. SKF | DATE: 12/07/11 | DWN BY: NJV

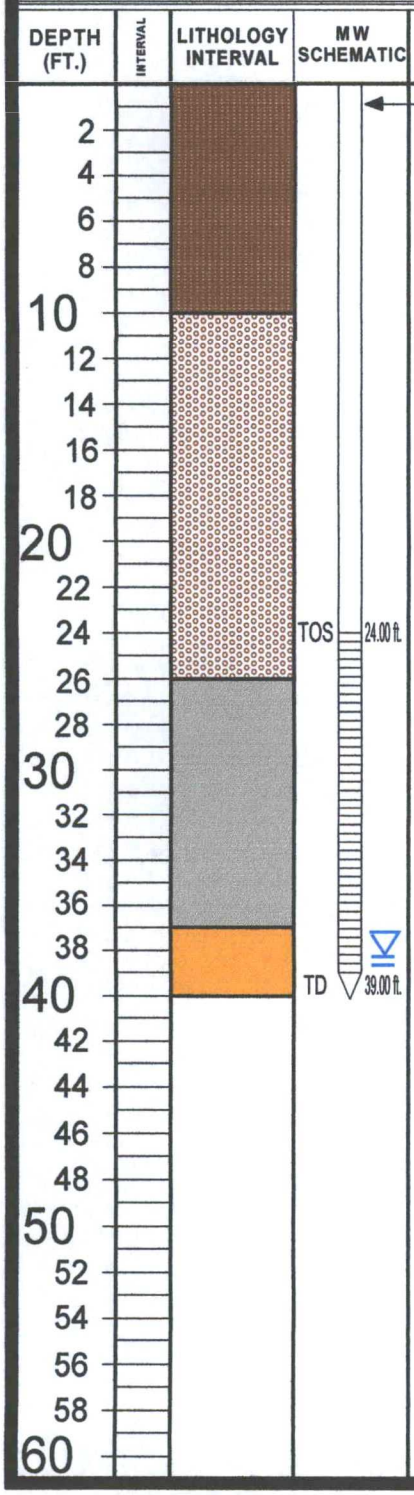
BLAGG ENGINEERING, INC.
P.O. BOX 87
BLOOMFIELD, NM 87413
(505) 632-1199

MW # 4

BORE / TEST HOLE REPORT

CLIENT:	BP AMERICA PRODUCTION CO.
LOCATION NAME:	SANDOVAL GC A # 1A COMPRESSOR PIT UNIT C, SEC. 35, T30N, R9W
CONTRACTOR:	BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.
EQUIPMENT USED:	MOBILE DRILL RIG (CME 75) - TUBEX SYSTEM
BORING LOCATION:	150 FEET, N61W FROM WELL HEAD.

BORING #.....	BH - 5
MW #.....	4
PAGE #.....	5
DATE STARTED	12/06/11
DATE FINISHED	12/06/11
OPERATOR.....	KP
LOGGED BY.....	NJV



FIELD CLASSIFICATION AND REMARKS

GROUND SURFACE

TOP OF CASING APPROX. 0.25 FT. BELOW GRADE.

MODERATE YELLOWISH BROWN SILTY SAND, NON COHESIVE, DRY TO MOIST, FIRM, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (0.0 - 10.0 FT. BELOW GRADE).

SAME AS ABOVE EXCEPT WITH GRAVEL (10.0 - 26.0 FT. BELOW GRADE).

BLUE/VERY LIGHT GRAY SILTSTONE TO CLAYSTONE, NON COHESIVE, DRY, DENSE TO VERY DENSE, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (26.0 - 37.0 FT. BELOW GRADE).

GW measured at 5,676.07' elevation (38.25' below casing top),
SAME AS ABOVE EXCEPT PALE YELLOWISH ORANGE (37.0 - 40.0 FT. BELOW GRADE).
measured on 11/20/2017

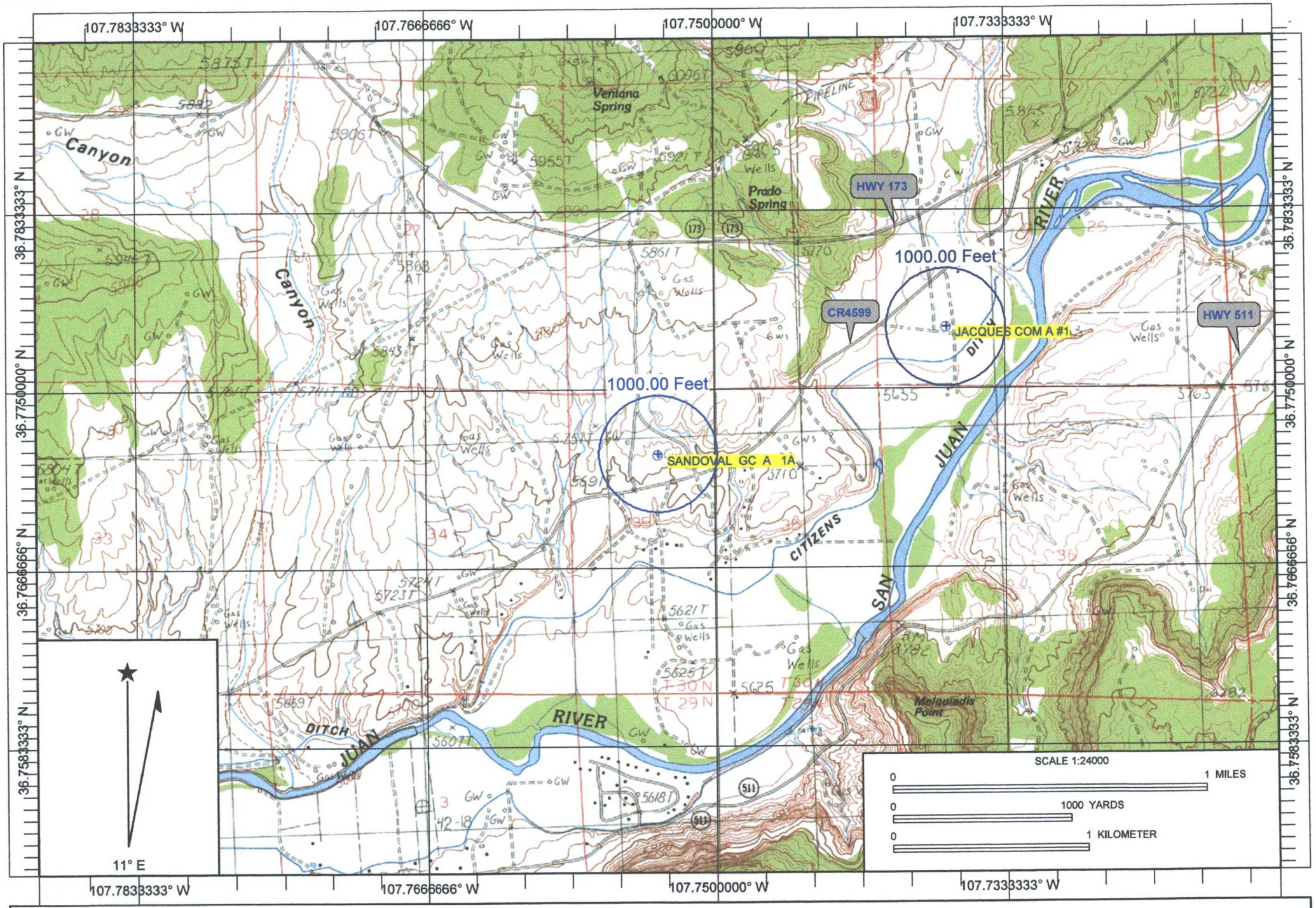
NOTES:
- SILTY SAND.
- SILTY SAND & GRAVEL.
- SILTSTONE / CLAYSTONE.

TOS - Top of screen of monitor well.
TD - Total depth/bottom extent of monitor well.

GROUNDWATER NOT PRESENT DURING 12/09/11 GAUGING.

Monitor well consist of 2 inch PVC piping - casing from 0.25 ft. to 24.00 ft. below grade, 0.020 slotted screen between 24.00 to 39.00 ft. below grade, sand packed annular to 22.0 ft. below grade, bentonite grout between 20.0 to 22.0 ft. below grade. Flush mount protector encompassing exposed casing. Secured well with locking cap and padlock.

DRAWING: SANDOVAL GC A 1A MW4-BH5. SKF | DATE: 12/07/11 | DWN BY: NJV



Name: TURLEY
Date: 12/6/2007
Scale: 1 inch equals 2000 feet

Location: 036.7719316° N 107.7533950° W
Caption: Sandoval GC A #1A
Unit C, Sec. 35, T30N, R9W

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☒ No ☐
Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: BP AMERICA PROD. CO. Telephone: (505)-326-9200 e-mail address:
Address: 200 ENERGY COURT. FARMINGTON. NM 87410
Facility or well name: SANDOVAL GC A #1A API #: 30-045- 22294 U/L or Qtr/Qtr C Sec 35 T 30N R 9W
County: SAN JUAN Latitude 36.77166 Longitude 107.75353 NAD: 1927 ☐ 1983 ☒ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

Pit	**Below-grade tank**	
Type: Drilling ☐ Production ☒ Disposal ☐ COMPRESSOR Workover ☐ Emergency ☐ Lined ☐ Unlined ☒ Liner type: Synthetic ☐ Thickness _____mil Clay ☐ Pit Volume _____bbl	Volume: _____bbl Type of fluid: Construction material: N/A Double-walled, with leak detection? Yes ☐ If not, explain why not.	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points) **20**
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No	(20 points) (0 points) **0**
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points) **0**
	Ranking Score (Total Points)	**20**

If this is a pit closure: (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if your are burying in place) onsite ☒ offsite ☐ If offsite, name of facility_____. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface _____ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: PIT LOCATED APPROXIMATELY 183 FT. N40W FROM WELL HEAD.
PIT EXCAVATION: WIDTH 15 ft., LENGTH 14 ft., DEPTH 7 ft. .
PIT REMEDIATION: CLOSE AS IS: ☐, LANDFARM: ☒, COMPOST: ☐, STOCKPILE: ☐, OTHER ☒ (explain) ESTABLISH VERTICAL EXTENT.
Cubic yards: 50

I hereby certify that the information above is true and complete to the best of my knowledge and belief. **I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an alternative OCD-approved plan ☒.**

Date: 11/11/06

PrintedName/Title Jeff Blagg – P.E. # 11607 Signature Jeffrey C. Blagg

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:

Printed Name/Title_____ Signature_____ Date: _____

VUL

B1298

District I
P.O. Box 1980, Hobbs, NM
District II
Drawer DD, Artesia, NM
District III
1000 Rio Brazos Rd., Aztec, NM

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. BOX 2088
SANTA FE, NEW MEXICO 87504-2088

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT

Operator: BP AMERICA PRODUCTION CO. Telephone: (505) 326-9200

Address: 200 ENERGY COURT, FARMINGTON, NM 87401

Facility or Well Name: Sandoval GC A #1A

Location: Unit or Qtr/Qtr Sec C Sec 35 T 30N R 9W County San Juan

Pit Type: Separator ___ Dehydrator ___ Other Compressor

Land Type: BLM X, State ___, Fee ___, Other ___

Pit Location: (Attach diagram)

Pit dimensions: length NA, width NA, depth NA

Reference: wellhead X, other ___

Footage from reference: 188'

Direction from reference: 40 Degrees ___ East North ✓ of ✓ West South ___

Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet	(20 points)	10 Kag
	50 feet to 99 feet	(10 points)	
	Greater than 100 feet	(0 points)	0
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources)	Yes	(20 points)	
	No	(0 points)	0
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 100 feet	(20 points)	
	100 feet to 1000 feet	(10 points)	
	Greater than 1000 feet	(0 points)	0
		RANKING SCORE (TOTAL POINTS):	10 Kag 0

revised: 09/11/02 bel1202.wpd

Comp B1298

Date Remediation Started: _____ Date Completed: 11-3-03

Remediation Method: (Check all appropriate sections) Excavation ~~X~~ Kay Approx. cubic yards ~~Kay NA~~ 50

Landfarmed ___ Insitu Bioremediation _____

Other ~~Kay~~ CLOSE AS IS.

Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility) Onsite X Offsite _____

General Description of Remedial Action: ~~Excavation. Test hole advanced. No remediation necessary.~~ Investigate Vertical Extent

Groundwater Encountered: No X Yes ___ Depth _____

Final Pit Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location see Attached Documents

Sample depth 10' (Test hole bottom)

Sample date 11/3/03 Sample time 1146

Sample Results

Soil:	Benzene	(ppm)	1.1	Water: Benzene	(ppb)	___
	Total BTEX	(ppm)	83.2	Toluene	(ppb)	___
	Field Headspace	(ppm)	654	Ethylbenzene	(ppb)	___
	TPH	(ppm)	3040	Total Xylenes	(ppb)	___

Groundwater Sample: Yes ___ No X (If yes, attach sample results)

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

DATE 11-3-03 PRINTED NAME Jeffrey C. Blagg

SIGNATURE Jeffrey C Blagg AND TITLE President P.E. # 11607

revised: 03/27/02 bei1202.wpd

VUL

CLIENT: BP	**BLAGG ENGINEERING, INC.** **P.O. BOX 87, BLOOMFIELD, NM 87413** **(505) 632-1199**	LOCATION NO: B1298 COCR NO: HALL

FIELD REPORT: PIT CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: SANDOVAL GC A WELL #: 1A TYPE: COMPR.

QUAD/UNIT: C SEC: 35 TWP: 30N RNG: 9W PM: NM CNTY: SJ ST: NM

QTR/FOOTAGE: 1150'N / 1590'W NE/NW CONTRACTOR: FLINT (LARRY)

DATE STARTED: 10/28/03

DATE FINISHED:

ENVIRONMENTAL SPECIALIST: NV

EXCAVATION APPROX. 15 FT. x 14 FT. x 7 FT. DEEP. CUBIC YARDAGE: 50

DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: LANDFARM

LAND USE: RANGE - BLM LEASE: NM 073792 FORMATION: MV

FIELD NOTES & REMARKS:

PIT LOCATED APPROXIMATELY 183 FT. N40W FROM WELLHEAD.

DEPTH TO GROUNDWATER: <100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMOCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 1000 PPM

SOIL AND EXCAVATION DESCRIPTION:

OVM CALIB. READ. = 53.3 ppm
OVM CALIB. GAS = 100 ppm RF = 0.52
TIME: 2:25 am/(pm) DATE: 10/27/03

SOIL TYPE: SAND / (SILTY SAND) / SILT / SILTY CLAY / (CLAY) / GRAVEL / OTHER

SOIL COLOR: MED. GRAY TO BLACK (3'-10' BELOW GRADE)

COHESION (ALL OTHERS): NON COHESIVE / (SLIGHTLY COHESIVE) / COHESIVE / HIGHLY COHESIVE

CONSISTENCY (NON COHESIVE SOILS): LOOSE / (FIRM) / DENSE / VERY DENSE

PLASTICITY (CLAYS): NON PLASTIC / (SLIGHTLY PLASTIC) / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC

DENSITY (COHESIVE CLAYS & SILTS): SOFT / (FIRM) / (STIFF) / VERY STIFF / HARD

MOISTURE: DRY / (SLIGHTLY MOIST) / MOIST / WET / SATURATED / SUPER SATURATED

DISCOLORATION/STAINING OBSERVED: (YES) / NO EXPLANATION - TEST HOLE / EXCAVATED SOIL

INVESTIGATE VERTICAL EXTENT

HC ODOR DETECTED: (YES) / NO EXPLANATION - EXCAVATION & OVM SAMPLE

SAMPLE TYPE: (GRAB) / COMPOSITE - # OF PTS. -

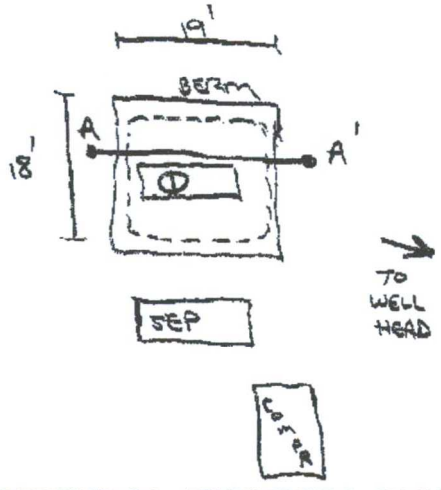
ADDITIONAL COMMENTS: VERTICAL EXTENT NEEDS TO BE ESTABLISHED.

FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)

SCALE 0 FT

PIT PERIMETER



P.D. = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELOW
T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM

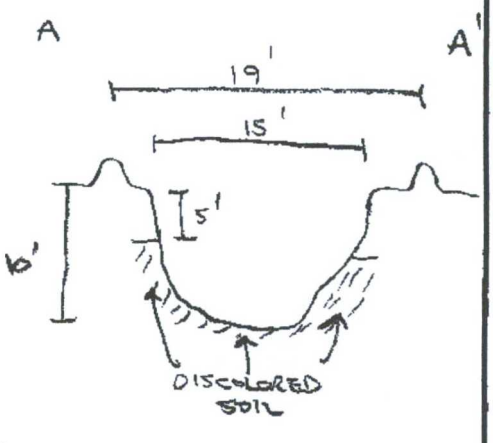
OVM READING

SAMPLE ID	FIELD HEADSPACE (ppm)
1 @ 7'	1477
2 @ 10'	654
3 @	
4 @	
5 @	

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME	
① @ 7'	TPH (8015B)	0950	10/28/03
"	BTEX (8021B)	"	
② @ 10'	TPH (8015B)	1146	11/8/03
"	BTEX (8021B)	"	

PIT PROFILE



TRAVEL NOTES: CALLOUT: 10/27/03 - MORN. ONSITE: 10/28/03 - MORN.

Hall Environmental Analysis Laboratory

Date: *07-Nov-03*

CLIENT: Blagg Engineering
Client Sample ID: 1 @ 7' Compressor Pit
Lab Order: 0310222
Collection Date: 10/28/2003 9:50:00 AM
Project: Sandoval GC A #1A
Lab ID: 0310222-03
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JMP**
Diesel Range Organics (DRO)	720	100		mg/Kg	20	10/31/2003 1:00:23 PM
Motor Oil Range Organics (MRO)	1700	1000		mg/Kg	20	10/31/2003 1:00:23 PM
Surr: DNOP	0	60-124	S	%REC	20	10/31/2003 1:00:23 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	3200	500		mg/Kg	100	11/3/2003 10:45:29 PM
Surr: BFB	115	74-118		%REC	100	11/3/2003 10:45:29 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	4.3	2.5		mg/Kg	100	11/3/2003 10:45:29 PM
Toluene	110	2.5		mg/Kg	100	11/3/2003 10:45:29 PM
Ethylbenzene	38	2.5		mg/Kg	100	11/3/2003 10:45:29 PM
Xylenes, Total	300	2.5		mg/Kg	100	11/3/2003 10:45:29 PM
Surr: 4-Bromofluorobenzene	131	74-118	S	%REC	100	11/3/2003 10:45:29 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: *14-Nov-03*

CLIENT: Blagg Engineering
Client Sample ID: 2@10' Compressor Pit
Lab Order: 0311023
Collection Date: 11/3/2003 11:46:00 AM
Project: Sandoval GC A #1A
Lab ID: 0311023-01
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JMP**
Diesel Range Organics (DRO)	550	50		mg/Kg	10	11/7/2003 9:53:39 PM
Motor Oil Range Organics (MRO)	1800	500		mg/Kg	10	11/7/2003 9:53:39 PM
Surr: DNOP	0	60-124	S	%REC	10	11/7/2003 9:53:39 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	690	50		mg/Kg	10	11/6/2003 11:08:52 AM
Surr: BFB	117	74-118		%REC	10	11/6/2003 11:08:52 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	1.1	0.25		mg/Kg	10	11/6/2003 11:08:52 AM
Toluene	12	0.25		mg/Kg	10	11/6/2003 11:08:52 AM
Ethylbenzene	7.1	0.25		mg/Kg	10	11/6/2003 11:08:52 AM
Xylenes, Total	63	0.25		mg/Kg	10	11/6/2003 11:08:52 AM
Surr: 4-Bromofluorobenzene	151	74-118	S	%REC	10	11/6/2003 11:08:52 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

BLAGG ENGINEERING, Inc.

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

BORE / TEST HOLE REPORT

CLIENT:	BP AMERICA PRODUCTION CO.
LOCATION NAME:	SANDOVAL GC A # 1A COMPRESSOR PIT UNIT C, SEC. 35, T30N, R9W
CONTRACTOR:	BLAGG ENGINEERING, INC. / ENVIROTECH, INC.
EQUIPMENT USED:	MOBILE DRILL RIG (CME 75)
BORING LOCATION:	180 FEET, N40W FROM WELL HEAD.

BORING #.....	BH1
MW #.....	NA
PAGE #.....	1
DATE STARTED	09/20/06
DATE FINISHED	09/20/06
OPERATOR.....	DP
PREPARED BY	NJV

DEPTH (FT.)	INTERVAL	LITHOLOGY INTERVAL	OVM READING (ppm)	FIELD CLASSIFICATION AND REMARKS
				GROUND SURFACE
2				DARK YELLOWISH ORANGE TO DARK YELLOWISH BROWN SAND (FILL MATERIAL), NON COHESIVE, SLIGHTLY MOIST, FIRM TO LOOSE, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (0.0 - 7.0 FT. BELOW GRADE).
4				
6				
8				DARK YELLOWISH BROWN / MEDIUM GRAY SAND INTERMIXED, NON COHESIVE, SLIGHTLY MOIST, FIRM, STRONG APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (7.0 - 12.0 FT. BELOW GRADE).
10				
12				
14				MEDIUM GRAY SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM, STRONG APPARENT HYDRO-CARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (12.0 - 17.0 FT. BELOW GRADE).
16			1,491	BH1 @ 15-17 FT. TIME: 1218 BLOW COUNT = 50 PER 20 INCHES COLLECTED WITH SPLIT SPOON SAMPLER. TPH = 10,000 ppm , BENZENE = 19 ppm , TOTAL BTEX = 1,183 ppm , CHLORIDE = 5.5 ppm.
18				AUGER REFUSAL - COBBLES ENCOUNTERED AT 17 FEET BELOW GRADE.
20				
22				
24				
26				
28				
30				
32				
34				
36				
38				
40				

NOTES: - SAND.

OVM - Organic Vapor Meter or Photo-ionization Detector (PID).
TPH - Total Petroleum Hydrocarbons EPA Method 8015B.
BTEX - benzene , toluene, ethylbenzene, total xylenes EPA Method 8021B.
ppm - Parts per million (unit value).

OVM CALIBRATION = 51.3 ppm with 100 ppm Isobutylence gas & response factor set @ 0.52 ; DATE - 09/19/06, TIME - 1535.

DRAWING: SANDOVAL GC A 1A BH1.SKF | DATE: 03/19/07 | DWN BY: NJV

Hall Environmental Analysis Laboratory, Inc.

Date: *06-Oct-06*

CLIENT:	Blagg Engineering	**Client Sample ID:**	BH1 @15'-17' COMPRESSOR P
Lab Order:	0609259	**Collection Date:**	9/20/2006 12:18:00 PM
Project:	Sandoval GC A #1A	**Date Received:**	9/21/2006
Lab ID:	0609259-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	1800	200		mg/Kg	20	9/26/2006 11:49:36 PM
Motor Oil Range Organics (MRO)	6800	1000		mg/Kg	20	9/26/2006 11:49:36 PM
Surr: DNOP	0	61.7-135	S	%REC	20	9/26/2006 11:49:36 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **BDH**
Gasoline Range Organics (GRO)	8200	250		mg/Kg	50	9/29/2006 2:50:06 PM
Surr: BFB	348	84.5-129	S	%REC	50	9/29/2006 2:50:06 PM
EPA METHOD 8021B: VOLATILES						Analyst: **BDH**
Benzene	19	2.5		mg/Kg	50	9/29/2006 2:50:06 PM
Toluene	320	5.0		mg/Kg	100	10/1/2006 6:10:42 PM
Ethylbenzene	64	2.5		mg/Kg	50	9/29/2006 2:50:06 PM
Xylenes, Total	780	15		mg/Kg	100	10/1/2006 6:10:42 PM
Surr: 4-Bromofluorobenzene	124	76.8-115	S	%REC	50	9/29/2006 2:50:06 PM
EPA METHOD 9056A: ANIONS						Analyst: **TES**
Chloride	5.5	1.5		mg/Kg	5	9/26/2006 3:18:32 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		

CHAIN-OF-CUSTODY RECORD

QA / QC Package:
Std ☐ Level 4 ☐
Other:

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

Client: BLAGG ENER. / BP AMERICA
Address: P.O. BOX 87, BLFD., NM 87413
Phone #: 632-1199
Fax #:

Project Name: SANDOVAL GC A #1A
Project #:
Project Manager: NV
Sampler: NV
Sample Temperature: 6°

ANALYSIS REQUEST

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative			HEAL No.
					$HgCl_2$	HNO_3	cool	
9/20/06	1218	SOIL	BH1 @ 15'-17'	1-4oz.			✓	0609259 -1
			COMPRESSOR PIT					

(BTEX) + MTBE + TMB's (8021B)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE				Air Bubbles or Headspace (Y or N)
✓		✓										✓				

Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)	
9/21/06	0730			9-21-06 @ 1610
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)	

Remarks:

CLIENT: BP

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

LOCATION NO: B1298
C.O.C. NO: 13919

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: SANDOVAL GC A WELL #: 1A PITS: COMPR.
QUAD/UNIT: C SEC: 35 TWP: 30N RNG: 9W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: NE/NW CONTRACTOR: FLINT (LARRY)

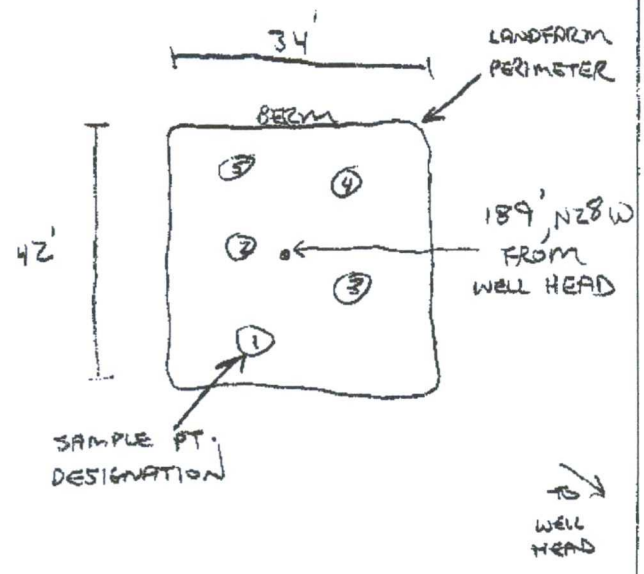
DATE STARTED: 7/22/05
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: NV

SOIL REMEDIATION:
REMEDIATION SYSTEM: LANDFARM
APPROX. CUBIC YARDAGE: 50
LAND USE: RANGE
LIFT DEPTH (ft): 0.5

FIELD NOTES & REMARKS: DEPTH TO GROUNDWATER: <100' NEAREST SURFACE WATER: >1,000'
NEAREST WATER SOURCE: >1,000' NMOCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 1,000 PPM

SOIL TYPE: (SAND) / (SILTY SAND) / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER
SOIL COLOR: DK. YELL. ORANGE
COHESION (ALL OTHERS): (NON COHESIVE) / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE
CONSISTENCY (NON COHESIVE SOILS): (LOOSE) / FIRM / DENSE / VERY DENSE
PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC
~~DENSITY (COHESIVE CLAYS & SILTS)~~: SOFT / FIRM / STIFF / VERY STIFF / HARD
MOISTURE: DRY / (SLIGHTLY MOIST) / MOIST / WET / SATURATED / SUPER SATURATED
(CLOSED)
DISCOLORATION/STAINING OBSERVED: YES / (NO) EXPLANATION -
HC ODOR DETECTED: YES / (NO) EXPLANATION -
SAMPLING DEPTHS (LANDFARMS): 4-6 (INCHES)
SAMPLE TYPE: GRAB / (COMPOSITE) # OF PTS. 5
ADDITIONAL COMMENTS:

SKETCH/SAMPLE LOCATIONS



OVM CALIB. READ. = 53.4 ppm
OVM CALIB. GAS = 100 ppm RF = 0.52
TIME: 7:10 (am)/pm DATE: 7/20/05

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE (ppm)
LF-1	0.0

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	TPH (8015B)	1255	ND

P.C. - 10/28/03

SCALE
0 FT

TRAVEL NOTES: CALLOUT: N/A ONSITE: 7/22/05

revised: 07/18/01 bel1006A.skd

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	LF - 1	Date Reported:	07-28-05
Laboratory Number:	33833	Date Sampled:	07-22-05
Chain of Custody No:	13919	Date Received:	07-25-05
Sample Matrix:	Soil	Date Extracted:	07-27-05
Preservative:	Cool	Date Analyzed:	07-28-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Sandoval GC A #1A Landfarm 5 Pt. Composite Sample.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

CHAIN OF CUSTODY RECORD

13919

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
BLAGG / BP	SANDOVAL GC A #1A	
Sampler: NTV	Client No. 94034-010	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH (8015B)	Remarks
							PRESERVED COOL 5 PT. NTV ~~GRV~~ COMPOSITE SAMPLE
LF - 1	7/12/05	1255	33833	SOIL	1	✓	LANDFARM

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Nelson VM	7/25/05	0812	[signature]	7-25-01	0812
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

July 9, 1998

CERTIFIED MAIL
RETURN RECEIPT NO. Z-235-437-308

Mr. B.D. Shaw
Amoco Production Company
200 Amoco Court
Farmington, New Mexico 87401

RE: SAN JUAN BASIN PIT GROUND WATER SITES

Dear Mr. Shaw:

Information in El Paso Field Services (EPFS) recent annual ground water monitoring report shows the presence of shallow ground at some well sites operated by Amoco Production Company (Amoco). Disposal activities at EPFS pits on these locations have resulted in contamination of shallow ground water. These sites also apparently have former unlined production pits operated by Amoco, some of which appear to be contributing to ground water contamination seen in EPFS monitoring wells.

Due to the presence of ground water contamination at these sites and the apparent commingling of contaminated waters from EPFS's former unlined dehy pit and Amoco's former unlined production pits, the OCD requests that Amoco cooperate with EPFS to investigate and remediate contaminated ground water at the sites listed below:

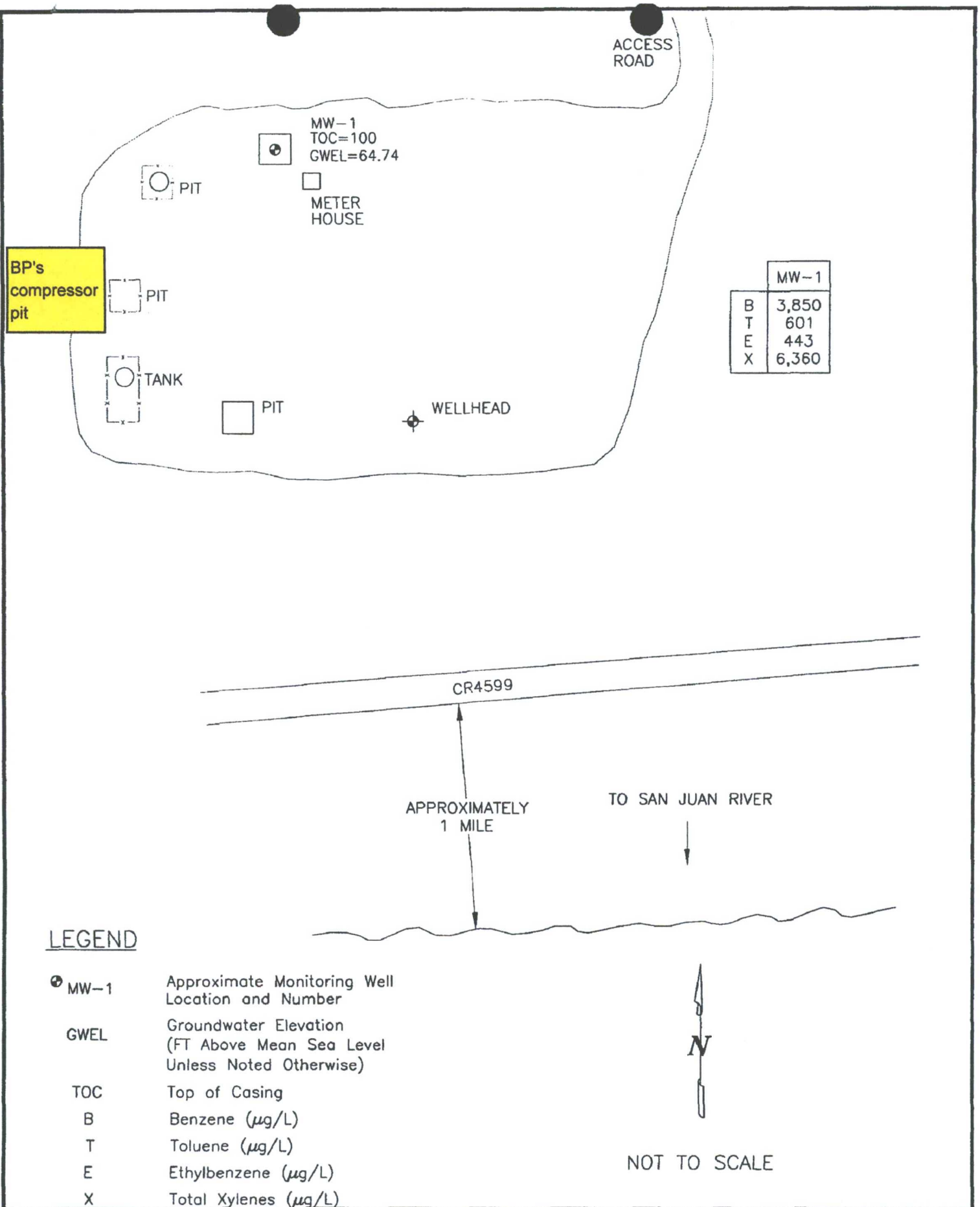
1.	Coldiron Com A#1	Unit K, Sec. 02, T30N, R11W.
2.	Fields A #7A	Unit E, Sec. 34, T32N, R11W.
3.	Gallegos Canyon Unit Com A #142E	Unit G, Sec. 25, T29N, R12W.
4.	Sandoval Gas Com A #1A	Unit C, Sec. 35, T30N, R09W.

If you have any questions, please contact me at (505) 827-7154.

Sincerely,

William C. Olson
Hydrologist
Environmental Bureau

xc: Denny Foust, OCD Aztec District Office
Sandra D. Miller, El Paso Field Services
Bill Liess, BLM Farmington Office



SANDOVAL GAS COM A #1A, METER 89620
MAY 2003

GROUNDWATER SITES
EL PASO FIELD SERVICES

FIGURE 1

sandovalgas_03.dwg