

GW - 255

REPORTS

YEAR(S):

1994 - 1995

MERIDIAN OIL

SOIL CONSERVATION DIVISION
RECEIVED

95 APR 5 PM 8 52

March 20, 1995

Certified #P-895-114-155

Mr. Dale L. Wirth
Bureau of Land Management
1235 La Plata Highway
Farmington, NM 87401

Re: **Buena Vista Compressor Station Site
Soil Contamination**

Dear Mr. Wirth:

This is to follow-up on the February 15, 1995 meeting wherein MOI committed to conduct a review of our facilities near and adjacent to the proposed Buena Vista site, evaluating the potential for possible sources of contamination. This evaluation has been completed, with a summary of each action described as follows:

- **Pump Unicon CDP** - this site was inspected on February 22, 1995 with an OCD representative (Denny Foust). Included was testing of a buried fill line from the pig receiver to the storage tank. No leaks were detected and no hydrocarbon contamination was observed.
- **Shaw #1-R** - this well site was initially inspected on February 22, 1995, along with Mr. Foust of OCD. Soil contamination was noted inside the bermed area of the active separator/dehydrator relief pit. As a follow-up, soil core samples were taken on March 8, 1995 to determine the extent of contamination from the pit area. This additional testing indicated that the aerial extent was limited, and samples taken adjacent to the west end of the pad (down-gradient) were absent of any indication of hydrocarbon contamination.
- **Pipeline Corridor** - a 1/2 -3/4 mile section of the pipeline corridor running N-S along the east side of the road adjacent to the Buena Vista site was tested for leaks on March 8, 1995. The area was traversed with hydrocarbon gas detection equipment; no leaks were detected.

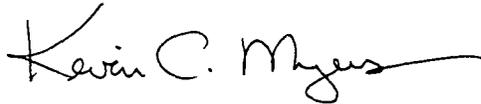
Based on these surveys, MOI has concluded that there does not appear to be a potential source of contamination associated with our facilities adjacent to or near the proposed Buena Vista site.

Other operators in the area have been conducting similar evaluations. It is requested that you advise us of their results, when this information becomes available.

Page 2
Mr. Dale Wirth - BLM
Buena Vista C.S.

Please let me (326-9841) or Rick Benson (326-9866) know if we can provide any additional information on this issue. As you know, we are anxious to complete the Environmental Assessment process and initiate construction of the compressor station at the Buena Vista site.

Sincerely yours,

A handwritten signature in black ink that reads "Kevin C. Myers". The signature is written in a cursive style with a long, sweeping underline.

Kevin C. Myers
Environmental Specialist

cc: Roger Anderson - OCD Santa Fe
Frank Chaves - OCD Aztec
Denny Foust - OCD Aztec
Sandra Miller - EPNG
Denver Bearden - Gas Co. of NM
Buddy Shaw - AMOCO
Manuel Atencio - Williams Field Services
Rick Benson - MOI

GAS COMPANY OF NEW MEXICO

1995 MAR 22 PM 8 52

March 06, 1995

Mr. Dale L. Wirth
Bureau of Land Management
1235 La Plata Highway
Farmington, NM 87401

Re: Meridian Buena Vista Compressor Station Site Soil
Contamination.

Dear Mr. Wirth;

On February 22, 1995, the Gas Company of New Mexico independently conducted a thorough review of our facilities associated with the proposed site.

The review was conducted by Jim Wilson, GCNM, Denver Bearden, GCNM Dale Wirth, BLM, and Denny Foust, OCD.

Jim Wilson, GCNM conducted a leak survey of our gathering lines associated with the proposed site. The results of the leak survey is attached.

Based on location of our 8" gathering line and the location of the bore holes where contamination was found. It would be very unlikely that GCNM could have contributed or caused the contamination.

If you may have any questions, please call me at 505-632-4131.

Sincerely,



Denver Bearden
Administrator III

DB:kb

Enclosure

cc: Denny Foust - OCD Aztec
Tony Ristau -
Chuck Garcia - Albuq.
Roger Anderson - OCD Santa Fe

DATE: 02-22-95 REPORT NUMBER: _____

TYPE OF SURVEY: LEAK METHOD: DRAWING & MARKING

CLASS LOCATION: 1 DETECTOR USED: DETECTOR FRAME PK

BOUNDARIES OF SURVEY: _____

UNIT TESTED: YES _____ NO _____ S12 T30 R9W

FEET OF SERVICE: _____

MILES OF MAINLINE SURVEYED: _____

MILES OF MAIN GATHERING LINE SURVEYED: 1.5 MILES

NUMBER OF SERVICES SURVEYED: 0

NUMBER OF WELL LINES SURVEYED: 0

NUMBER OF SIGNS PLACED: 0

NUMBER OF LINES SPOTTED: 0

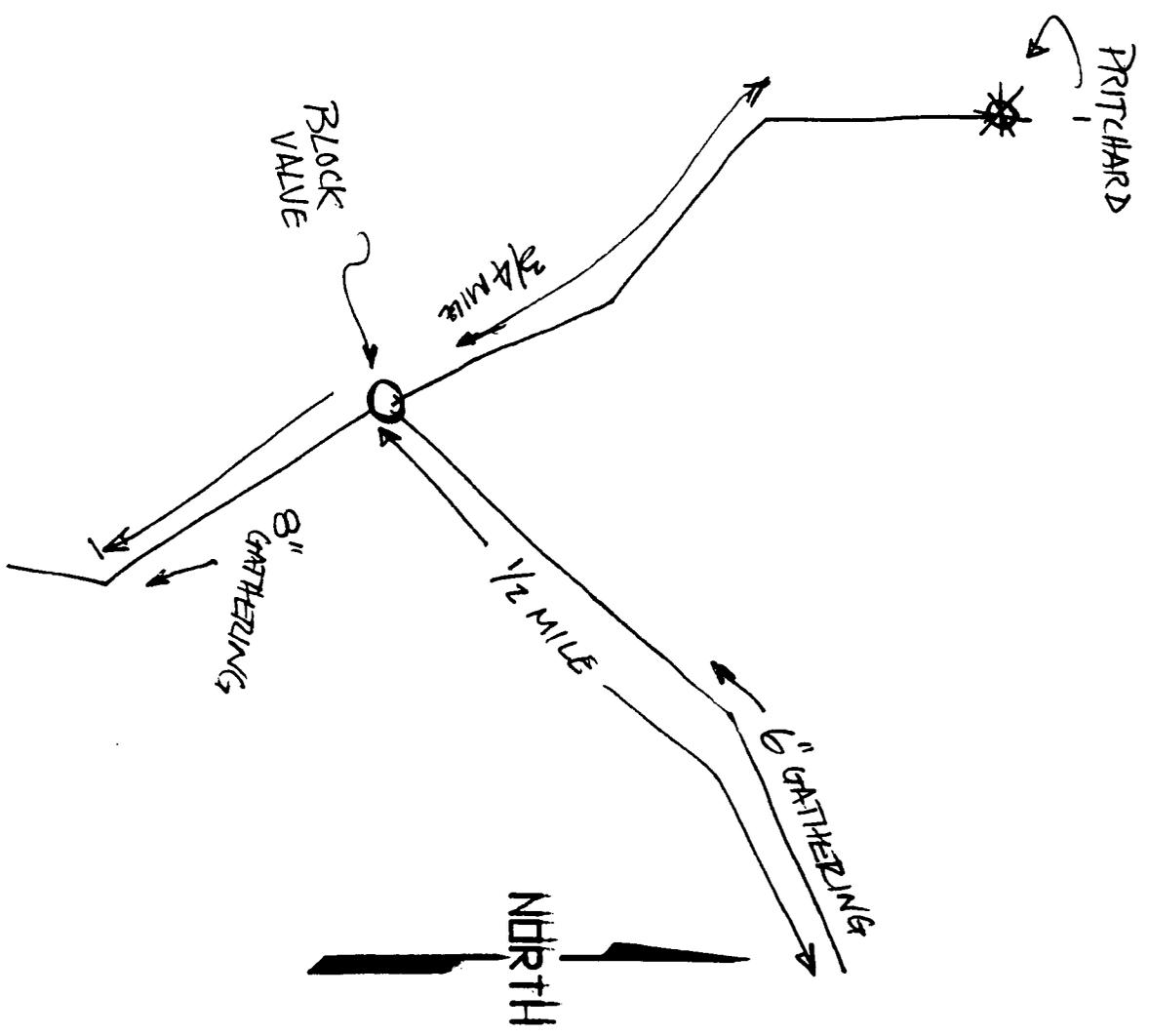
LEAKS FOUND: GRADE 1 GRADE 2 GRADE 3

GRADE OF LEAK LEAK CARD NUMBER ACTION TAKEN

REMARKS: No LEAKS FOUND

SURVEYED BY: JIM WILSON

- MAP AREA -



ACAD FILE NAME: LEAKFORM

MERIDIAN OIL

BLM CONSERVATION DIVISION
RECEIVED

February 16, 1995

95 MAR 9 AM 8 52 Certified #P-895-114-151

Mr. Dale L. Wirth
Bureau of Land Management
1235 La Plata Highway
Farmington, NM 87401

Re: **Buena Vista Compressor Station Site
Soil Contamination**

Dear Mr. Wirth:

This is to document our understanding of the agreements reached in the February 15, 1995 meeting regarding the soil contamination issue at the proposed Buena Vista Compressor Station site. The agreed upon course of action is summarized as follows:

(1) Companies with operating assets near the Buena Vista site (Meridian, Gas Company of New Mexico, Amoco, El Paso Natural Gas, and Williams Field Services) shall each independently conduct a thorough review of their facilities, including corrosion inspections as appropriate, to detect possible sources of contamination. Each company shall notify BLM and OCD of field inspection activities in advance, and shall report back the findings within approximately one (1) month.

(2) Meridian shall install at least one (1) ground water monitoring well at an upgradient location to establish baseline water quality and to detect changes in water quality over time. Installation will occur immediately following construction of the compressor station, currently scheduled for June, 1996.

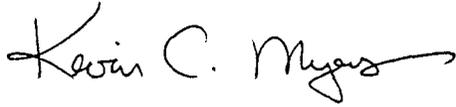
(3) In the event ground water contamination is found in the future, OCD as the lead agency, shall coordinate efforts to locate a source and conduct remediation, as appropriate.

Although not discussed at this meeting, it is our understanding that the Environmental Assessment (EA) being prepared for this project will discuss the soil contamination issue, including the agreed upon actions to be taken. Moreover, this issue as it now stands, will not delay completion of the EA or issuance of the FONSI.

Please let me know if any of the above points of understanding are incorrect. We appreciate the agency's leadership in resolving this issue and look forward to continued cooperative efforts in the future.

Page 2
Mr. Dale Wirth - BLM
Buena Vista C.S.

Sincerely yours,

A handwritten signature in black ink that reads "Kevin C. Myers". The signature is written in a cursive style with a long horizontal flourish extending to the right.

Kevin C. Myers
Environmental Specialist

cc: Roger Anderson - OCD Santa Fe
Frank Chaves - OCD Aztec
Denny Foust - OCD Aztec
Sandra Miller - EPNG
Denver Bearden - Gas Co. of NM
Buddy Shaw - AMOCO
Manuel Atencio - Williams Field Services

file: Buena Vista C.S.

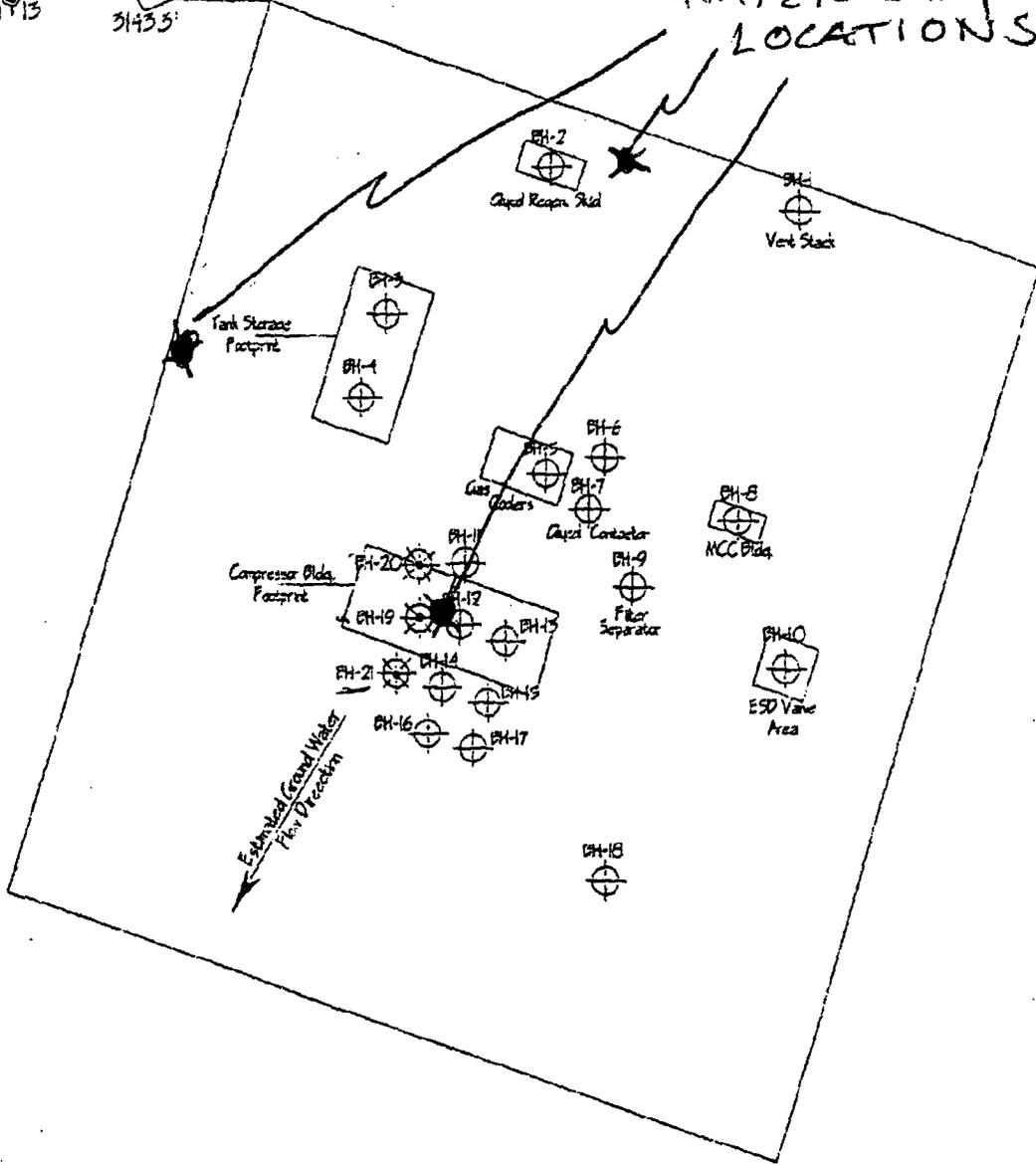
BUENA VISTA COMPRESSOR SITE
MEETING. 2/15/95

NAME	COMPANY/ORGANIZATION	PHONE
DALE WIRTH	BLM - FDO	599-6320
ROGER ANDERSON	OCD - SF	827-7152
Denny Foust	OCD - Aztec	334-6178
Frank T. Chavez	"	"
Denver Bearder	GAS CO OF New Mex	632-4131
Buddy Shaw	Amoco	326-9219
Stephanie Odell	FDO - BLM	599-6314
Bill Liess	FDO - BLM	599-6321
Albert Gonzalez	FDO - BLM	599-6334
KEVIN MYERS	MERIDIAN	326-9841
Rick Benson	Meridian	326-9846
MARK ASHLEY	OCD - SF	827-7155
Sandra Miner	EPNG	599-2141
Manuel Atencio	WFS	632-4632

Section Corner

11.12 589' 16' 46" E
14.13 3143.5'

TENTATIVE WATER SAMPLE LOCATIONS



Hydrocarbon Investigation Boring Location & Designation



Geotechnical Boring Location & Designation



Scale: 1 in. = 100 ft.

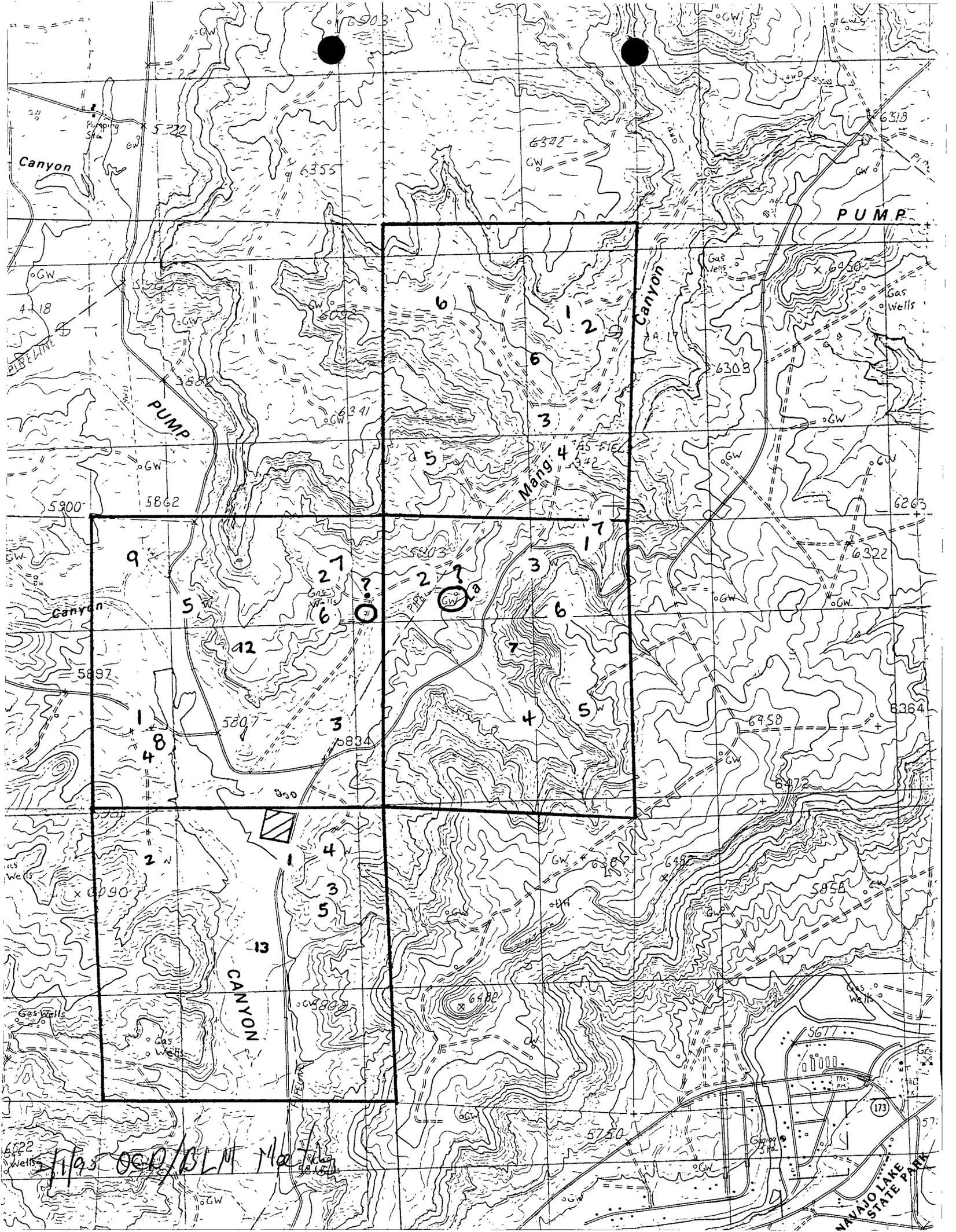
Note: BH-19 offset 1 foot from BH-12

Post-it™ brand fax transmittal memo 7571		# of pages	1
To	Kevin	From	NEE
Co.	Myers	Co.	Burlington
Dept.	MGT	Phone #	
Fax #		Fax #	3269725

Map
 Hydrocarbon Investigation Report
 Oil Company
 13, T30N, R9W
 County, New Mexico

Project No.
943803

Figure No.
1



Canyon

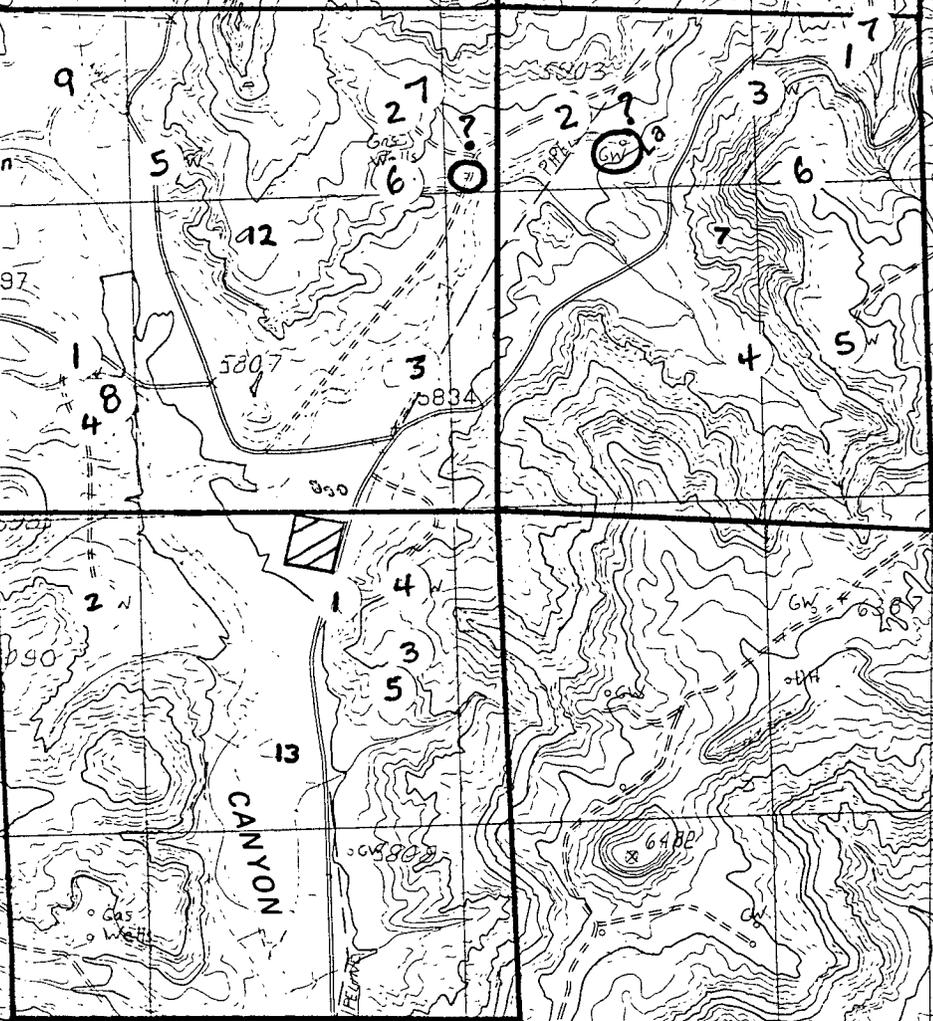
PUMP

PUMP

Mang 4

CANYON

NAVAJO LAKE STATE PARK



1/195 OGD/BLM M...

Sec. 12, T.30N., R.9W. ALL LOCATIONS ARE WITHIN LEASE SF-078439

- | | |
|---|--|
| 1. Meridian Oil Inc.
Johnston 1X NW4 SW4
1650 S 900W
Drilled 8-30-53
Completed 11-11-53
Blanco/Mesaverde | 2. Meridian Oil Inc.
JOHNSTON 3 NE4 NE4
990 N 990 E
Drilled 8-5-52
Completed 12-10-52
Workover 9-30-57
Blanco/Mesaverde |
| 3. Meridian Oil Inc.
Johnston Fed 3A NE4 SE4
1470 S 900 E
Drilled 5-23-75
Completed 7-7-75
Blanco/Mesaverde | 4. Ralph A & Wm. G. Johnston
Johnston 1 & R SW4 SW4
990 S 990 W
Drilled 2-17-51
Completed Unknown
Abandoned 6-10-54
Blanco/Mesaverde |
| 5. Meridian Oil Inc.
Johnston Fed 1A SE4 NW4
1600 N 1800 W
Drilled 3-18-77
Completed 5-2-77
Blanco/Mesaverde | 6. Union Texas Petro.
Johnston Fed 3R SE4 NE4
1700 N 900 E
Drilled 3-25-69
Completed 4-14-69
Blanco/ Measverde |
| 7. Meridian Oil Inc.
Johnston Fed 24 NE4 NE4
820 N 895 E
Drilled 5-29-89
Completed 7-29-89
Fruitland Coal | 8. Meridian Oil Inc.
Johnston Fed 27 SW4 SW4
1250 S 1010 W
Drilled 7-14-90
Completed 12-20-90
Fruitland Coal |
| 9. Meridian Oil Inc.
Johnston Fed 27R
790 E 790 W
Drilled 12-11-92
Completed 1-2-93
Fruitland Coal | |

2/1/95 OCO/BLM Meeting

Sec. 7, T30N., R.8W.

1. Dugan Production
Moore 1 NE4 NE4
530 N 580E
Lease SF-078580
Drilled 5-12-68
Completed 6-12-68
Dakota
2. Meridian Oil Inc.
Howell 2A-G NE4 NW4
1180 N 880 W
Lease SF-09717
Drilled 1-4-79
Completed 3-28-79
Blanco/Mesaverde
3. Meridian Oil Inc.
Howell 3-C NW4 NE4
790 N 1650 E
Lease SF-078596
Drilled 7-26-51
Completed 9-20-51
Blanco/Mesaverde
4. Meridain Oil Inc.
Pump Canyon SWD 1
1725 S 1850 E
Lease Sf-078596
Drilled 8-19-88
Completed 12-22-88
Entrada
5. Meridian Oil Inc.
Howell 3A-C NE4 SE4
1860 S 790 E
Lease SF-078580
Drilled 11-11-78
Completed 4-17-79
Blanco/Mesaverde
6. Meridian Oil Inc.
Howell 300C Com SW4 NE4
1610 N 1165 E
Lease SF-078580
Drilled 6-8-88
Completed 6-26-88
Fruitland Coal
7. Meridian Oil Inc.
Howell 300R-C Com NE4 NE4
140 N 525 E
Lease SF-078580
Drilled 11-30-92
Completed 3-5-93
Fruitland Coal

Sec 6., T.30N., R.8W., ALL LOCATIONS ARE WITHIN LEASE NM-09717

- | | | | |
|----|--|----|--|
| 1. | Amoco Production Co.
Florance 3H SE4 NE4
1480 N 1025 E
Drilled 6-22-89
Completed 8-22-89
Fruitland Coal | 2. | Amoco Production Co.
Florance 37H SE4 NE4
1650 N 990 E
Drilled 5-18-65
Completed Unknown
Dakota/Mesaverde |
| 3. | Amoco Production Co.
Florance 37A NW4 SE4
1780 S 1495 E
Drilled 9-19-77
Completed 3-21-77
Mesaverde | 4. | Amoco Production Co.
Florance 103 SE4 SE4
1190 S 1190 E
Drilled 9-21-67
Completed 5-8-81
Fruitland Coal |
| 5. | Meridian Oil Inc.
Howell 2G SE4 SW4
990 S 990 W
Drilled 4-22-57
Completed 12-31-57
Blanco/Mesaverde | 6. | Meridian Oil Inc.
Howell 300 G Com SE4 NW4
1430 N 1090 W
Drilled 5-11-88
Completed 4-19-89
Fruitland Coal |

NOTE: THE ARCHULETA QUADRANGLE 7.5 MINUTE SERIES INDICATES A WELL IN SECTION 7, T.30N., R.8W., AT APPROXIMATELY 1375 N 1325 W AND A WELL IN SEC 12, T.30N., R.9W., AT APPROXIMATELY 1750 N 325 E. A RECORD SEARCH OF THE PANEL MAPS, IWR'S AND LEASE FILE HAS TURNED UP NEGATIVE IN AN EFFORT TO ID THESE WELLS. IT MAY BE THAT IT WAS AN ERROR WHEN THE MAP WAS MADE. FIELD INVESTIGATION WILL BE CONDUCTED IN AN EFFORT TO SEE IF THESE WELL EXISTED AT ONE TIME.

UNDESIRABLE EVENTS LIST IS ATTACHED. RECORDS INDICATE THAT ONLY PRODUCED WATER SPILLS OCCURRED IN THE VICINITY OF THE PROPOSED COMPRESSOR SITE.

MERIDIAN OIL
BUENA VISTA COMPRESSOR SITE

Locations are up gradient or in the immediate vicinity of the proposed compressor site location.

SEC. 13, T.30N.,R.9W.

1. El Paso Nat. Gas Co.
Shaw 1 NW4 NE4
900 N 1750 E
Lease SF-077231
Drilled 3-31-52
Completed 5-27-52
Abandoned 3-6-68
Blanco/Mesaverde
2. Meridian Oil Inc.
1A Shaw NW4 NW4
955 N 1190 W
Lease SF-077231
Drilled 2-19-75
Completed 4-19-75 (MV)
6-13-85 (PC)
3. Meridian Oil Inc.
Shaw 3 SE4 NE4
1610 N 1040 E
Lease SF-077231
Drilled 8-22-85
Completed 10-3-85
Blanco/Pictured Cliffs
4. Meridian Oil Inc.
Shaw 1R NE4 NE4
790 N 1090 E
Lease SF-077231
Drilled 8-18-67
Completed 9-6-67
Blanco/Measverde
5. Meridian Oil Inc.
Shaw 250 NW4 NE4
1650 N 1035 E
Lease SF-077231
Drilled 9-1-88
Completed 9-28-88
Fruitland Coal

	L3-11, SENW, NESW, N2SE;	969	NMNM	80782	MERIDIAN OIL GATH	PEND	4/24/1989
02	SESE;	969			MERIDIAN OIL INC		
	L8, 11, E2SE;	969	NMNM	80896	AMOCO PRODUCTION CO	AUTH	11/20/1989
		969					
	SENE;	285003	970	NMNM	87597	FARMINGTON CITY OF	4/24/1992
01	SENE, E2SE, NESE;	288100	969	NMNM	0 6312	EL PASO NATURAL GAS	9/19/1951
02	SENE;	969					
		969					
L	11;	969	NMNM	0 6731	EL PASO NATURAL GAS		11/16/1951
A	NESE;	969					
L	8, 11;	969	NMNM	0 12916	NORTHWEST PIPELINE		8/13/1953
A	N2SE;	969					

PCN: 06211P1

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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STATE: NEW MEXICO
MBRID NEW MEX PM

LOCATION INDEX

ENTRY DATE 1/27/95

TWP	RNG	SEC/CTY	SRVY TYPE	SRVY NUMB	SRVY SUPP	SUBDIVISION	CASE TYPE	CMDTY CODE	SERIAL NUMBER	PROPIETOR	CASE DISP	DATE FILED
30 N	8 W	6					288100	969	NMNM	0 12916	AUTH	8/13/1953
			E			SESE;	285002	970	NMNM	0253841	FARMINGTON CITY OF	5/26/1962
				01		L8, 11;	285003	970	NMNM	0321614	FARMINGTON CITY OF	10/09/1962
				02		E2SE;		970				
			7			NENE;	288100	969	NMNM	6832	EL PASO NATURAL GAS	6/17/1968
						E2SE;		969	NMNM	34492	EL PASO NATURAL GAS	8/24/1978
						L1;		969	NMNM	35777	SUNTERRA GAS GATH	12/26/1978
								969				
						L2;		969	NMNM	71415	UNION TX PETRO CORP	PEND 8/09/1988
						NESW;	285003	970	NMNM	77248	FARMINGTON CITY OF	AUTH 12/05/1988
								970				
						SENE, NESE;	288100	969	NMNM	77255	EL PASO NATURAL GAS	PEND 12/16/1988
						N2SE;		969	NMNM	80756	EL PASO NATURAL GAS	AUTH 3/07/1989
						L1, 4, E2E2, E2SW, W2SE;		969	NMNM	80782	MERIDIAN OIL GATH	PEND 4/24/1989
								969			MERIDIAN OIL INC	
						NENE, NESW;		969	NMNM	81378	WILLIAMS FIELD SERVS	AUTH 11/22/1989
								969				
						E2NE, NESW;		969	NMNM	84037	WILLIAMS FIELD SVC	7/30/1990
			A			SESE;		969	NMNM	0 13010	SUNTERRA GAS GATH	8/31/1953
								969				
			8			NESW, N2SE;		969	NMNM	26642	EL PASO NATURAL GAS	9/08/1975
						S2NE, NESE;		969	NMNM	31272	EL PASO NATURAL GAS	8/01/1977
						E2NW;		969	NMNM	31450	SUNTERRA GAS GATH	8/12/1977
								969				
						SWSW;		969	NMNM	34492	EL PASO NATURAL GAS	8/24/1978
						E2W2, N2SE;		969	NMNM	35777	SUNTERRA GAS GATH	12/26/1978
								969				
						NESE;		969	NMNM	71375	EL PASO NATURAL GAS	7/08/1988
						ALL;		969	NMNM	80782	MERIDIAN OIL GATH	PEND 4/24/1989
								969			MERIDIAN OIL INC	
						N2NE, E2W2, SWSW;		969	NMNM	80896	AMOCO PRODUCTION CO	AUTH 11/20/1989
								969				
						N2NW;		969	NMNM	81378	WILLIAMS FIELD SERVS	11/22/1989

2/1/95
BLM/OCO Meeting

B	SWSW;	285002	970	NNNM	0253841	FARMINGTON CITY OF	5/26/1962
	L3,4;	285003	970	NNNM	0321614	FARMINGTON CITY OF	10/09/1962
	L4;	288100	969	NNNM	0557234	EL PASO NATURAL GAS	5/20/1965
5	L3,4;		969	NNNM	25402	EL PASO NATURAL GAS	4/21/1975
L	3;	288101	969	NNNM	28958	EL PASO NATURAL GAS	9/23/1976
B	S2SE;	288100	969	NNNM	31450	SUNTEERRA GAS GATH	8/12/1977
			969				
	S2NE,SESW,W2SE;		969	NNNM	35777	SUNTEERRA GAS GATH	12/26/1978
			969				
	L3;		969	NNNM	41756	EL PASO NATURAL GAS	8/04/1980
	W2SE;		969	NNNM	41801	EL PASO NATURAL GAS	8/11/1980
	L3;		969	NNNM	50391	KOCH EXPLORATION	9/18/1981

PCN: 0G211P1

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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DATE: 1/27/95

STATE: NEW MEXICO
MERID NEW MEX PM

LOCATION INDEX

ENTRY DATE 1/27/95

TWP	RNG	CTY	SEC/ TYPE	SRVY NUMB	SRVY SUFF	SUBDIVISION	CASE TYPE	CMDTY CODE	SERIAL NUMBER	PROPIETOR	CASE DISP	DATE FILED
							288100	969	NNNM	50391	AUTH	9/18/1981
			B			L4;		969	NNNM	51785		6/22/1982
						NWSE;		969	NNNM	65135		3/04/1986
						L1;	285003	970	NNNM	68394		5/08/1987
						L3;	288100	969	NNNM	71292		4/29/1988
						L1-4,S2N2,S2;		969	NNNM	80782	PEND	4/24/1989
								969				
						L1,4,S2NE,SWNW,W2SE,SESE;		969	NNNM	80896	AUTH	11/20/1989
								969				
						L3,NWNE,SENW,E2SW;		969	NNNM	81378		11/22/1989
								969				
						LOTS 1,3, S2NE,SENW;	281001	969	NNNM	92870		5/12/1992
								969				
						W2NWNW;	288100	969	NNNM	0 6312		9/19/1951
			A			N2SW,SESW,SWSE,SESE;		969	NNNM	0 6731		11/16/1951
						SESW;		969	NNNM	0 6988		12/26/1951
			L			4;		969	NNNM	0 12916		8/13/1953
								969				
			B			S2S2;	285002	970	NNNM	0253841		5/26/1962
						L4;	285003	970	NNNM	0321614		10/09/1962
						L1;	288100	969	NNNM	0557234		5/20/1965
								969				
						L5;		969	NNNM	28592		8/04/1976
						02 SWNE,SENW,NWSE;		969				
						01 NWSE;		969	NNNM	30758		5/18/1977
						L5,10,11,SENW,W2SE;		969	NNNM	35777		12/26/1978
								969				
						SESE;		969	NNNM	50679		9/30/1981
			01			L8,11;		969	NNNM	51785		6/22/1982
						02 E2SE;		969				
			01			L5;	285003	970	NNNM	59143		12/26/1984
						02 SWNE,SENW,W2SE;		970				
								970				
						L3,10,SENW,W2SE;	288100	969	NNNM	71377		7/08/1988

TWP	RNG	CTY	TYPE	NUMB	SUPP	SUBDIVISION	TYPE	CODE	SERIAL NUMBER	PROPIETOR	DISP	FILED
30 N	9 W	11	B			W2NW, NWSW;	288100	969	NMNM 35777		AUTH	12/26/1978
						SWNE, W2NW, SENW, SESW, SE;	288101	969	NMNM 38997	AMOCO PRODUCTION CO		11/09/1979
						E2SW, NWSW, W2SE;	288100	969	NMNM 40979	EL PASO NATURAL GAS		6/02/1980
						NWSW, NWSE;		969	NMNM 42587	EL PASO NATURAL GAS		10/06/1980
						W2NE, W2SE;	285003	970	NMNM 45660	FARMINGTON CITY		5/13/1981
						W2SW;	288100	969	NMNM 51706	SUNTERRA GAS GATH		5/07/1982
						SWNE, S2NW, N2SW, SWSW;	285003	970	NMNM 59143	FARMINGTON CITY OF		12/26/1984
						NWSW;	288100	969	NMNM 62366	EL PASO NATURAL GAS		6/26/1985
						NWSE, S2SE;		969	NMNM 62454	EL PASO NATURAL GAS		9/03/1985
						ALL;		969	NMNM 80782	MERIDIAN OIL GATH	PEND	4/24/1989
								969		MERIDIAN OIL INC		
						SWNE, E2NW, N2SW, E2SE, SWSE;		969	NMNM 80896	AMOCO PRODUCTION CO	AUTH	11/20/1989
			A			SESE;		969	NMNM 0 9423	EL PASO NATURAL GAS		10/14/1952
						NWNE;		969	NMNM 0 11305	EL PASO NATURAL GAS		3/05/1953
			B			NWNW;		969	NMNM 0 13011	SUNTERRA GAS GATH		8/31/1953
								969				
						N2NE;	285002	970	NMNM 0283318	FARMINGTON CITY OF		5/01/1962
						N2NE;	288100	969	NMNM 0558496	EL PASO NATURAL GAS		11/10/1965
						SENE;		969	NMNM 9291	EL PASO NATURAL GAS		3/19/1969
						SWSW;		969	NMNM 24571	EL PASO NATURAL GAS		1/23/1975
						S2NW, N2SW;		969	NMNM 25250	EL PASO NATURAL GAS		4/03/1975
						NESE;		969	NMNM 25252	EL PASO NATURAL GAS		
						NWSW;		969	NMNM 27693	EL PASO NATURAL GAS		2/11/1976
				01		SENE, N2NW, SENW, E2SW, N2SE;		969	NMNM 35777	SUNTERRA GAS GATH		12/26/1978
				02		SWSE;		969				
						SENE, E2SE, SWSE;		969	NMNM 38664	EL PASO NATURAL GAS		10/04/1979
						SENE, N2NW, SWNW, SESW;		969	NMNM 80109	UNION TX PETRO CORP	CLOS	11/20/1989
								969				
						S2SE;		969	NMNM 80731	MERIDIAN OIL GATH		2/27/1989
						S2;		969	NMNM 80782	MERIDIAN OIL GATH	PEND	4/24/1989
								969		MERIDIAN OIL INC		
						E2E2, E2W2, NWNW, SWSE;		969	NMNM 80890	MERIDIAN OIL INC	AUTH	9/11/1989
								969				
								969				
						SENE, E2W2, NWNW, NWSW, SE;		969	NMNM 80896	AMOCO PRODUCTION CO		11/20/1989
								969				
						NESE, S2SE;		969	NMNM 81378	WILLIAMS FIELD SERVS		11/22/1989
								969				
						E2W2, SWSE;		969	NMNM 83261	MERIDIAN OIL GATH		11/20/1990
						E2NE;		969	NMNM 83274	MERIDIAN OIL INC		12/20/1990
								969				
								969				

12

PCN: 06211P1

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

PAGE: 126

DATE: 1/27/95

STATE: NEW MEXICO

HERID NEW MEX PM

LOCATION INDEX

ENTRY DATE 1/27/95

SBC/ SRVY SRVY SRVY
TWP RNG CTY TYPE NUMB SUPP SUBDIVISION

CASE CMDTY
TYPE CODE SERIAL NUMBER PROPIETOR

CASE DATE
DISP FILED

30 N	9 W	13										
			B	E2;	288100	969	NMNM	91457	MERIDIAN OIL PROD	PEND	5/12/1994	
				NWNE;		969	NMNM	92455	MERIDIAN OIL GATH	AUTH	10/19/1994	
			A	SWSE;		969	NMNM	0 5891	EL PASO NATURAL GAS		7/09/1951	
			B	W2NE, W2NWSE, N2N2S2SE;		969	NMNM	0 6312	EL PASO NATURAL GAS		9/19/1951	
			A	NWNE;		969	NMNM	0 9437	EL PASO NATURAL GAS		10/15/1952	
				W2E2;		969	NMNM	0 12916	NORTHWEST PIPELINE		8/13/1953	
						969						
				S2;		969	NMNM	0 13010	SUNTERRA GAS GATH		8/31/1953	
						969						
			B	S2SE;		969	NMNM	0 39500	EL PASO NATURAL GAS		12/02/1957	
			A	W2E2, SESE;	285002	970	NMNM	0253841	FARMINGTON CITY OP		5/26/1962	
	14		B	NWSE;	288100	969	NMNM	6057	EL PASO NATURAL GAS		5/02/1968	
				S2SW;		969	NMNM	6060	EL PASO NATURAL GAS			
				W2SE;		969	NMNM	6067	EL PASO NATURAL GAS			
				S2SE;		969	NMNM	6255	EL PASO NATURAL GAS		5/16/1968	
				W2NW, SW;		969	NMNM	13483	EL PASO NATURAL GAS		3/11/1971	
				NWNE, N2NW;		969	NMNM	16671	EL PASO NATURAL GAS		7/10/1972	
				E2SE;		969	NMNM	26821	SUNTERRA GAS GATH		10/09/1975	
				NWNW;		969	NMNM	28382	EL PASO NATURAL GAS		6/21/1976	
				S2SW;		969	NMNM	35777	SUNTERRA GAS GATH		12/26/1978	
						969						
				NWNE, N2NW;	288101	969	NMNM	38997	AMOCO PRODUCTION CO		11/09/1979	
				N2NW;	288100	969	NMNM	40979	EL PASO NATURAL GAS		6/02/1980	
				S2SW;	285003	970	NMNM	59143	FARMINGTON CITY OP		12/26/1984	
				SE;	288100	969	NMNM	59198	EL PASO NATURAL GAS		2/25/1985	
				W2NE;		969	NMNM	62339	EL PASO NATURAL GAS		5/24/1985	
				S2SE;	285003	970	NMNM	64200	FARMINGTON CITY		11/05/1985	
				NW;	288100	969	NMNM	80782	MERIDIAN OIL GATH	PEND	4/24/1989	
						969			MERIDIAN OIL INC			
				NWNE, S2SW, NESE, S2SE;		969	NMNM	80896	AMOCO PRODUCTION CO	AUTH	11/20/1989	
						969						
			A	N2NE;		969	NMNM	0 9423	EL PASO NATURAL GAS		10/14/1952	
				S2SE;		969	NMNM	0 13010	SUNTERRA GAS GATH		8/31/1953	
						969						
			B	W2NE, E2SW, NWSE;		969	NMNM	0558458	EL PASO NATURAL GAS		11/04/1965	
	15			W2SW;		969	NMNM	12592	EL PASO NATURAL GAS		10/12/1970	
				N2NW;		969	NMNM	25508	EL PASO NATURAL GAS		4/28/1975	
				S2SE;		969	NMNM	28419	EL PASO NATURAL GAS		6/30/1976	
				S2NE, SE;		969	NMNM	62378	EL PASO NATURAL GAS		7/02/1985	
				NWNE, S2NE, N2NW;		969	NMNM	65117	EL PASO NATURAL GAS	CLOS	2/14/1986	
			A	NWNE, S2NE, N2NW;		969	NMNM	80729	EL PASO NATURAL GAS	AUTH	2/24/1989	
			B	NE;		969	NMNM	80782	MERIDIAN OIL GATH	PEND	4/24/1989	
						969			MERIDIAN OIL INC			
				NWNE;	281009	969	NMNM	84066	MERIDIAN OIL GATHER	AUTH	9/24/1990	
					288100	969	NMNM	91202	EL PASO NATURAL GAS		8/15/1993	

PCN: 06211P1

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

PAGE: 128
DATE: 1/27/95

STATE: NEW MEXICO
MERID NEW MEX PM

LOCATION INDEX

ENTRY DATE 1/27/95

TWP	RNG	SEC/CTY	SRVY TYPE	SRVY NUMB	SRVY SUPP	SUBDIVISION	CASE TYPE	COMDTY CODE	SERIAL NUMBER	PROPIETOR	CASE DISP	DATE FILED
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Trigon Engineering Inc

Oil & Gas Pipelines
Compressor Stations
Cogeneration Facilities
Environmental Services

Mechanical
Chemical
Electrical
Structural

Bill Olson

OIL CONSERVATION DIVISION
RECEIVED

January 30, 1995

95 FEB 6 AM 8 52

RECEIVED
FEB 02 1995

OIL CON. DIV.
DIST. 3

Mr. Denny Faust
New Mexico Oil Conservation Division
1000 Rio Brazos Rd.
Aztec, NM 87410

RE: BUENA VISTA COMPRESSOR STATION SOIL STAINING REPORT

Dear Mr. Faust:

Enclosed please find a copy of a Basin Exploration Inc. report regarding soil hydrocarbon staining discovered during subsurface boring explorations at the proposed Meridian Oil Inc. Buena Vista Compressor Station site. A copy of this report was submitted to the BLM during a meeting on January 20, 1995, the results of which are summarized on the enclosed letter.

Please contact me at the provided phone number or address if you have any questions or require additional information. Thank you.

Sincerely,

Richard Coleman, M.A.
Environmental Specialist

c: Mr. Mark Smith, Trigon
File Meridian\609a\b3

RECEIVED

FEB 07 1995

Environmental Bureau
Oil Conservation Division



January 30, 1995

Ms. Ilyse Gold
U.S. Department of the Interior
Bureau of Land Management - Farmington District
Farmington, NM 87402

RE: BUENA VISTA COMPRESSOR STATION SITE SOIL CONTAMINATION

Dear Ms. Gold:

On January 20, 1995, representatives of Meridian Oil Gathering Inc. and Trigon Engineering Inc. met with you and representatives of your staff to present and disclose the results of subsurface soil tests at the proposed Buena Vista Compressor Station Site in Pump Canyon. Hydrocarbon contamination was located at 30 feet below ground surface in three borings. This level is immediately above the groundwater; however, no groundwater tests have been performed to determine its hydrocarbon content. The source of the hydrocarbon contamination is unknown but an old condensate discharge pit upgradient of the site may be a potential source.

During the meeting, the following items were discussed relevant to the situation and Meridian Oil's permitting process for the compressor station site:

1. The New Mexico Oil Conservation Division (NMOCD) will be the lead agency regarding the contamination source exploration and clean up;
2. The Farmington District BLM will facilitate a "round up" of commercial production companies that could be potentially responsible parties for the source of the contamination;
3. Meridian will serve as a coordinator between the potentially responsible parties to develop and execute a cost sharing exploration program for the source(s) of contamination in consultation with the NMOCD and BLM;
4. Upon identification of the responsible party, a cleanup/remediation plan will be developed in consultation with the NMOCD and BLM;
5. The Environmental Assessment (EA) being prepared for the site will include a discussion of the soil contamination and actions being taken in the "Existing Environment" and "Environmental Consequences" sections; and
6. A FONSI for the EA could be issued once a contaminant source has been identified and a cleanup program has been initiated.

Bureau of Land Management - Farmington District
January 30, 1995
Page 2

Based upon the above understandings and actions, it is anticipated that the permitting process for the compressor station will not be unduly delayed by the soil contamination issue. Meridian Oil Inc. is recognized as having exercised good faith in bringing the soil contamination issue to agency attention and being proactive in assisting and coordinating with its resolution.

If any of the above points of understanding are in error, please bring it to my attention at your earliest convenience. Thank you for your assistance and advice regarding this matter.

Sincerely,



Richard Coleman, M.A.
Environmental Specialist

xc: Mr. Albert Gonzales, BLM
Mr. Denny Faust, NMOCD
Mr. Rick Benson, Meridian
Mr. Kevin Meyers, Meridian
Mr. Mark Smith, Trigon

File:Meridian\609a\b3

MINERAL DIVISION
RECEIVED

January 24, 1995

8 52

Bill,

I have enclosed the latest information received to date concerning the BUENA VISTA COMPRESSOR SITE proposed by Meridian Oil Inc. At our January 20, 1995 meeting with Meridian they presented the lab results and it was agreed that BLM would conduct an in-house search to identify all existing wells, plug and abandoned wells, and pipelines located up gradient of the proposed compressor site in an effort to identify the possible source of contamination. This search would also include any undesirable events that may have occurred up gradient in the area as a possible source of the contamination. We requested that Denny Foutz be present at the meeting, however, he was unable to attend. We informed Meridian that since groundwater contamination has occurred that OCD would have the lead in the clean up and BLM would cooperate with OCD. In addition, all companies that operate in the area will be identified and will need to cooperate (financially, information sharing, etc.) in the investigation of the contamination source. At this time it appears that Meridian, Amoco and El Paso Natural Gas Company operate in the area.

Please review this information and give me a call at your convenience if you have any questions. We would like very much for you or Roger to attend our next meeting with Meridian if your schedule allows. I will do my best to give you ample warning when we meet again so you can plan accordingly. Thanks for your help. I can be reach at 599-6320.

Dale Wirth

January 9, 1995



Mr. Rick Benson
Meridian Oil
P.O. Box 4289
Farmington, NM 87499

**RE: Buena Vista Compressor Site
Hydrocarbon Soil Staining Investigation**

Dear Mr. Benson:

At your request Basin Engineering, Inc.(BASIN) has completed three exploratory soil borings at the above referenced site under Meridian Oil purchase order number 202679. The purpose of this letter is to transmit the findings of the soil investigation.

SCOPE OF WORK

The scope of work, as provided by Meridian Oil, consisted of the following tasks:

- ▶ Drill three (3) soil borings, BH-19, BH-20 and BH-21 at the locations provided by Meridian Oil shown in Figure 1.
- ▶ Collect soil samples at approximately 30 feet below ground surface for hydrocarbon analysis.
- ▶ Deliver collected soil samples to Meridian's office in Farmington, NM.
- ▶ Estimate the approximate ground water gradient and direction.
- ▶ Provide this documentation of activities performed as part of this investigation.

The field investigation for this project was conducted between December 16, 1994 and December 20, 1994. Three soil borings BH-19, BH-20 and BH-21 were drilled by Beylik Drilling, Inc. out of Bernalillo, NM using a Failing-1000 drilling rig and hollow stem auger drilling techniques. The soil borings were drilled on December 16, 1994. A copy of the soil boring logs are attached to this letter. Soils encountered were a poorly graded sand with silt of moderate density. Field moisture contents were

described as slightly moist. Soil samples were collected, with decontaminated California samplers, starting at fifteen (15) feet below ground surface and every five (5) feet thereafter up to a total depth of thirty five (35) feet. The soil borings were terminated at 35 feet below surface because hydrocarbon impact was not evident at 35 feet and soil sample collection was difficult below the water table.

For each soil sample collected a jar headspace test was performed to estimate hydrocarbon impact. Results of the organic vapor meter (OVM) jar headspace measurements are shown in the boring logs. The only soil samples indicating hydrocarbon impact were the samples collected at thirty (30) feet in each boring. In addition to the headspace testing, analytical soil samples were collected at thirty (30) feet in the stained soils from each boring and at fifteen (15) feet in soil boring number 20. The four analytical soil samples were hand delivered to Meridian Oil's Farmington office with chain-of custody.

Meridian Oil had the soil samples analyzed by Burlington Environmental out of Mississauga, Ontario, Canada. Results of the laboratory testing is attached to this letter. The analysis suggests that the hydrocarbon impact is heavy end hydrocarbon's as indicated by the below detection limits for benzene. No analysis was performed in the heavy end hydrocarbon range thus it is difficult to determine the nature of the soils impact.

Temporary piezometers were installed in the soil borings upon drilling completion. The purpose of the piezometers was to estimate the gradient and direction of the shallow ground water. The piezometers were completed with #20 slot, 2 inch diameter PVC screen from the ground surface to 36 feet below ground surface. Ground water measurements were obtained from the inside of the piezometer. The 2

inch PVC pipe was removed from the boring after reliable ground water levels were obtained.

Shallow ground water at this site was encountered at 30 feet below existing ground surface. Results of the ground water elevations indicate the ground water is moving to the southwest at a 2% gradient. Figure 1 shows the approximate direction of the shallow ground water flow.

If you have any questions or need further assistance with this investigation please do not hesitate to call me at 325-0267.

Sincerely,
Basin Engineering, Inc.

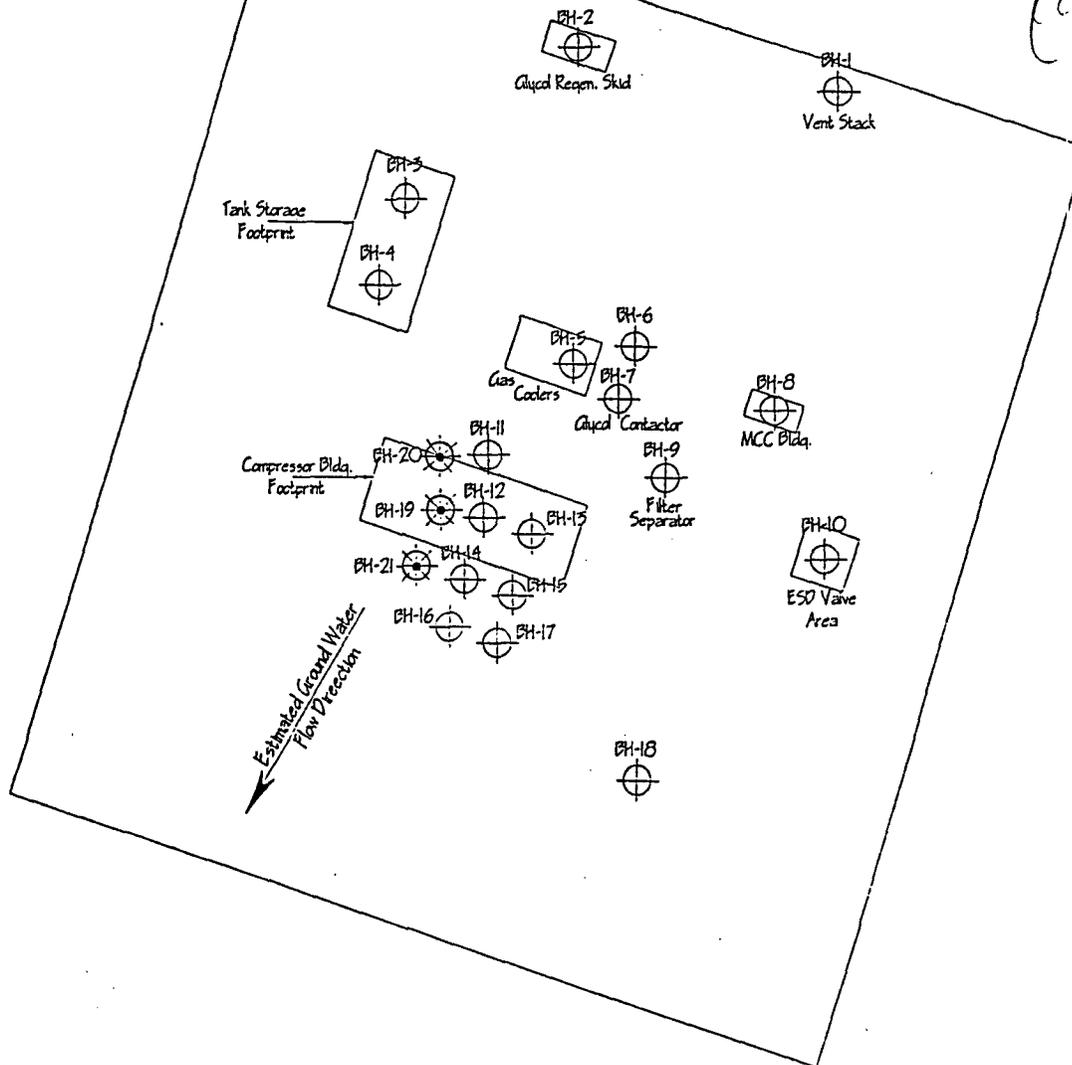


John E. Casey, P.E.
President

Section Corner

11 12 589° 16' 46" E
14 13 3143.3'

Amoco
Collection
Facility.
(CANYON GATHERING
SYSTEM)



Hydrocarbon Investigation Boring
Location & Designation



Geotechnical Boring Location
& Designation



Note: BH-19 offset 1 foot from BH-12

Scale: 1 in. = 100 ft.



Site Map

Buena Vista Hydrocarbon Investigation Report
Meridian Oil Company
Section 13, T30N, R9W
San Juan County, New Mexico

Project No.
943803

Figure No.
1

Drawn by	Date	Checked by	Date
JSF	1/9/95	JEC	1-9-95

BORING LOG

Well No: BH-19



PROJECT: Buena Vista Compressor Site
CLIENT: Meridian Oil
LOCATION: Buena Vista Compressor Site
DRILLER: Beylick
DRILLING METHOD: HSA Failing-1000
DEPTH TO WATER (FT): 30.82

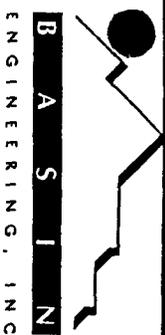
PROJECT NO.: 943803
DATE: 12-16-94
ELEVATION (FT): 5827.7
DATUM: MSL
LOGGED BY: K. Turner
WELL DIAMETER (IN): 2 inch Piezome

ELEVATION/ DEPTH (FT)	DESCRIPTION	SOIL TYPE	ODOR	SAMPLERS	OVM (ppb)	ELEVATION/ DEPTH (FT)	MONITOR WELL INSTALLATION DETAILS
5827.5 - 0	Poorly Graded SAND, with silt, medium grained, light brown, moderately dense, slightly moist, SP-SM	none	none		0	5827.5 - 0	Temporary Piezometer
5820 - 7.5							
5812.5 - 15	12" of hydrocarbon stained soils from 29.5 to 30.5. Light gray soil staining.	none	none	0	0	5812.5 - 15	Temporary Piezometer
5805 - 22.5							
5797.5 - 30							
5790 - 37.5	Total Depth 36.5 feet.	none	none		0	5790 - 37.5	
5782.5 - 45						5782.5 - 45	

NOTES: HSA - 4.25" ID Hollow Stem Augers
 Piezometer removed after water levels obtained.

BORING LOG

Well No: BH-20



PROJECT: Buena Vista Compressor Site
CLIENT: Meridian Oil
LOCATION: Buena Vista Compressor Site
DRILLER: Beylick
DRILLING METHOD: HSA Failing-1000
DEPTH TO WATER (FT): 31.10

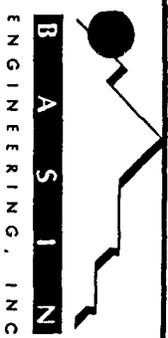
PROJECT NO.: 943803
DATE: 12-16-94
ELEVATION (FT): 5828.2
DATUM: MSL
LOGGED BY: K. Turner
WELL DIAMETER (IN): 2 inch Piezome

ELEVATION/ DEPTH (FT)	DESCRIPTION	SOIL TYPE	ODOR	SAMPLERS		ELEVATION/ DEPTH (FT)	MONITOR WELL INSTALLATION DETAILS
				OV	MB		
5827.5 - 0	Poorly Graded SAND, with silt, medium grained, light brown, moderately dense, slightly moist, SP-SM	none	none	0		5827.5 - 0	Temporary Piezometer
5820 - 7.5				0		5820 - 7.5	
5812.5 - 15	4" of hydrocarbon stained soils from 30.5 to 30.8. Light gray soil staining.	fuel	none	0		5812.5 - 15	Temporary Piezometer
5805 - 22.5				0		5805 - 22.5	
5797.5 - 30				500		5797.5 - 30	
5790 - 37.5	Total Depth 36.5 feet.			0		5790 - 37.5	
5782.5 - 45						5782.5 - 45	

NOTES: HSA - 4.25" ID Hollow Stem Augers
 Piezometer removed after water levels obtained.

BORING LOG

Well No: BH-21



PROJECT: Buena Vista Compressor Site
CLIENT: Meridian Oil
LOCATION: Buena Vista Compressor Site
DRILLER: Beylick
DRILLING METHOD: HSA Failing-1000
DEPTH TO WATER (FT): 30.90

PROJECT NO.: 943803
DATE: 12-16-94
ELEVATION (FT): 5826.7
DATUM: MSL
LOGGED BY: K. Turner
WELL DIAMETER (IN): 2 inch Piezome

ELEVATION/ DEPTH (FT)	DESCRIPTION	SOIL TYPE	ODOR	SAMPLERS	OVM (ft)	ELEVATION/ DEPTH (FT)	MONITOR WELL INSTALLATION DETAILS
0	Poorly Graded SAND, with silt, medium grained, light brown, moderately dense, slightly moist, SP-SM	none	none	0	0	0	Temporary Piezometer
7.5		none	0	0	0	7.5	
15		none	0	0	0	15	
22.5		none	0	0	0	22.5	
30		12" of hydrocarbon stained soils from 29.5 to 30.5. Light gray soil staining.	fuel	0	377	30	
37.5	Total Depth 36.5 feet.	none	0	0	37.5	37.5	
5820						5820	
5812.5						5812.5	
5805						5805	
5797.5						5797.5	
5790						5790	
5782.5						5782.5	

NOTES: HSA - 4.25" ID Hollow Stem Augers
 Piezometer removed after water levels obtained.

BURLINGTON ENVIRONMENTAL
A Philip Environmental Company



MERIDIAN OIL INC.
P.O.Box 4289
Farmington, NM 87499
USA

Attn: Mr. Craig Book
Project:

PO #:

Received: 20-Dec-94 12:26

Job: 9410133

Status:

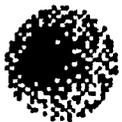
Final

Soil samples

Sample Id	TPH-GRO	BENZENE	TOLUENE	ETHYLBENZENE m-	p-XYLENES	o-XYLENE
	Mod. 5030/8015	5030/8020	5030/8020	5030/8020	5030/8020	5030/8020
	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g
BH-19-30	440	<0.100	0.425	4.89	5.47	8.63
BH-20-15	<2	<0.005	0.008	<0.005	<0.010	<0.005
BH-20-30	36	<0.005	0.014	0.361	0.237	0.463
BH-21-30	2770	<0.500	<0.500	12.4	27.6	3.43
Sample+Spike (found)	96%	88.0 %	91.0 %	88.0 %	86.0 %	87.0 %
Sample+Spike (expected)	100%	100. %	100. %	100. %	100. %	100. %
Blank	<2	<0.005	<0.005	<0.005	<0.010	<0.005
QC Standard (Found)	106%	112. %	115. %	99.0 %	101. %	100. %
QC Standard (expected)	100%	100. %	100. %	100. %	100. %	100. %
Repeat BH-20-15	<2	<0.005	0.008	<0.005	<0.010	<0.005

Burlington Environmental Inc.
5735 McAdam Road • Mississauga, Ontario • L4Z 1N9

28-Dec-94
Page: 1
Copy: 2 of 2
Set: 1
USA



**BURLINGTON
ENVIRONMENTAL**
A Philip Environmental Company

MERIDIAN OIL INC.
P.O.Box 4289
Farmington, NM 87499
USA

28-Dec-94

Page: 2
Copy: 2 of 2
Set: 1

Attn: Mr. Craig Bock
Project:

Received: 20-Dec-94 12:26

PO #:

Job: 9410133

Status: Final

Soil samples

<u>Sample Id</u>	<u>B.F.BENZENE 5030/8020 % Recovery</u>
BH-19-30	N
BH-20-15	96%
BH-20-30	N
BH-21-30	N
Sample+Spike (found)	92%
Sample+Spike (expected)	100%
Blank	91%
QC Standard (found)	95%
QC Standard (expected)	100%
Repeat BH-20-15	95%



**BURLINGTON
ENVIRONMENTAL**

A Philip Environmental Company

28-Dec-94

**MERIDIAN OIL INC.
P.O.Box 4289
Farmington, NM 87499
USA**

Page: 3
Copy: 2 of 2
Set : 2

**Attn: Mr. Craig Bock
Project:**

Received: 20-Dec-94 12:26

PO #:

Job: 9410133

Status: Final

Abbreviations:

Parameters:

TPH-GRO : Total Pet. Hydrocarbons - Gasoline Range Organics
BENZENE : Benzene
TOLUENE : Toluene
ETHYLBENZENE : Ethylbenzene
m- & p- XYLENES : m-XYLENE & p-XYLENE
o-XYLENE : o-Xylene
B.F.BENZENE : 4-Bromofluorobenzene (Surrogate Standard)

Methods:

Mod. 5030/8015 : Methods 5030 and 8015 from US EPA SW-846 (modified)
5030/8020 : Methods 5030 and 8020 from US EPA SW-846



BURLINGTON ENVIRONMENTAL

A Philip Environmental Company

MERIDIAN OIL INC.
P.O.Box 4289
Farmington, NM 87499
USA

28-Dec-94

Page: 4
Copy: 2 of 2
Set : 2

Attn: Mr. Craig Bock
Project:

PO #:

Received: 20-Dec-94 12:26

Job: 9410133

Status: Final

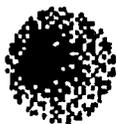
Units:

ug/g : microgram per gram
% Recovery : Percent Recovery

Quality codes:

% : Percent
< : Result obtained was below the detection limit
N : Not Applicable





**BURLINGTON
ENVIRONMENTAL**
A Philip Environmental Company

28-Dec-94

MERIDIAN OIL INC.
P.O.Box 4289
Farmington, NM 87499
USA

Page: 6
Copy: 2 of 2

Attn: Mr. Craig Bock
Project:

Received: 20-Dec-94 12:26

PO #:

Job: 9410133

Status: Final

QUALITY CONTROL DATA SHEET

Received by: frank

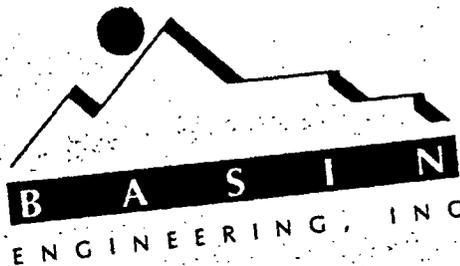
Via: Craig Bock

Sample Container Type: Glass
Sample Type: Soil

Parameter	Method	M.D.L.	Date Sampled	Date Extracted	Date Analyzed
TPH-GRO	5030/8015	2 ug/g	12/16	12/21	12/21
BTEX	5030/8020	0.005 ug/g	12/16	12/21	12/21

Burlington Environmental Inc.
5735 McAdam Road • Mississauga, Ontario • L4Z 1N9
(800) 838-7905 • Fax: (905) 890-8575





December 6, 1994

Mr. Rick Benson
Meridian Oil
P.O. Box 4289
Farmington, New Mexico 87499
326-9866

RE: Buena Vista Compressor Site

Dear Mr. Benson,

The purpose of this letter is to transmit our findings of the hydrocarbon soil staining found during the geotechnical subsurface exploration program conducted by Basin Engineering, Inc. during the week of November 7, 1994. Basin conducted the subsurface exploration program to define soil properties for the proposed construction at this site. Figure 1 shows the general location of the site, Figure 2 shows the location of the soil borings on the proposed site.

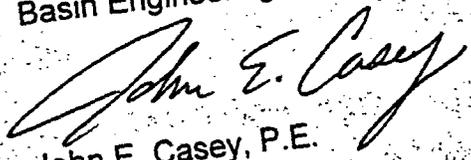
The zone of hydrocarbon staining was encountered in soil boring number BH-12. This boring was drilled to a total depth of 60 feet below existing ground surface. The zone of hydrocarbon impact was found at 30.5 feet below existing ground surface. Ground water was also encountered at 30.5 feet. A copy of BH-12 is attached for your review. Soil boring BH-4, located north west of BH-12, was also drilled to 60 feet below existing ground surface. No hydrocarbon impact was found in BH-4.

The nature of the hydrocarbon impact appeared to be from light end hydrocarbons as evident from the odor and soil staining. The zone of impact appeared to be six (6) inches to twelve (12) inches thick and only in the capillary zone. Due to the nature and thickness of the hydrocarbon impact found, the impact appears to be from an up gradient source. When the augers were retrieved from the boring there was no sheen or staining on the augers.

p.o. box 3909 1911 main avenue, suite 280 durango, co 81302 telephone (303) 259-3733 facsimile (303) 259-3597

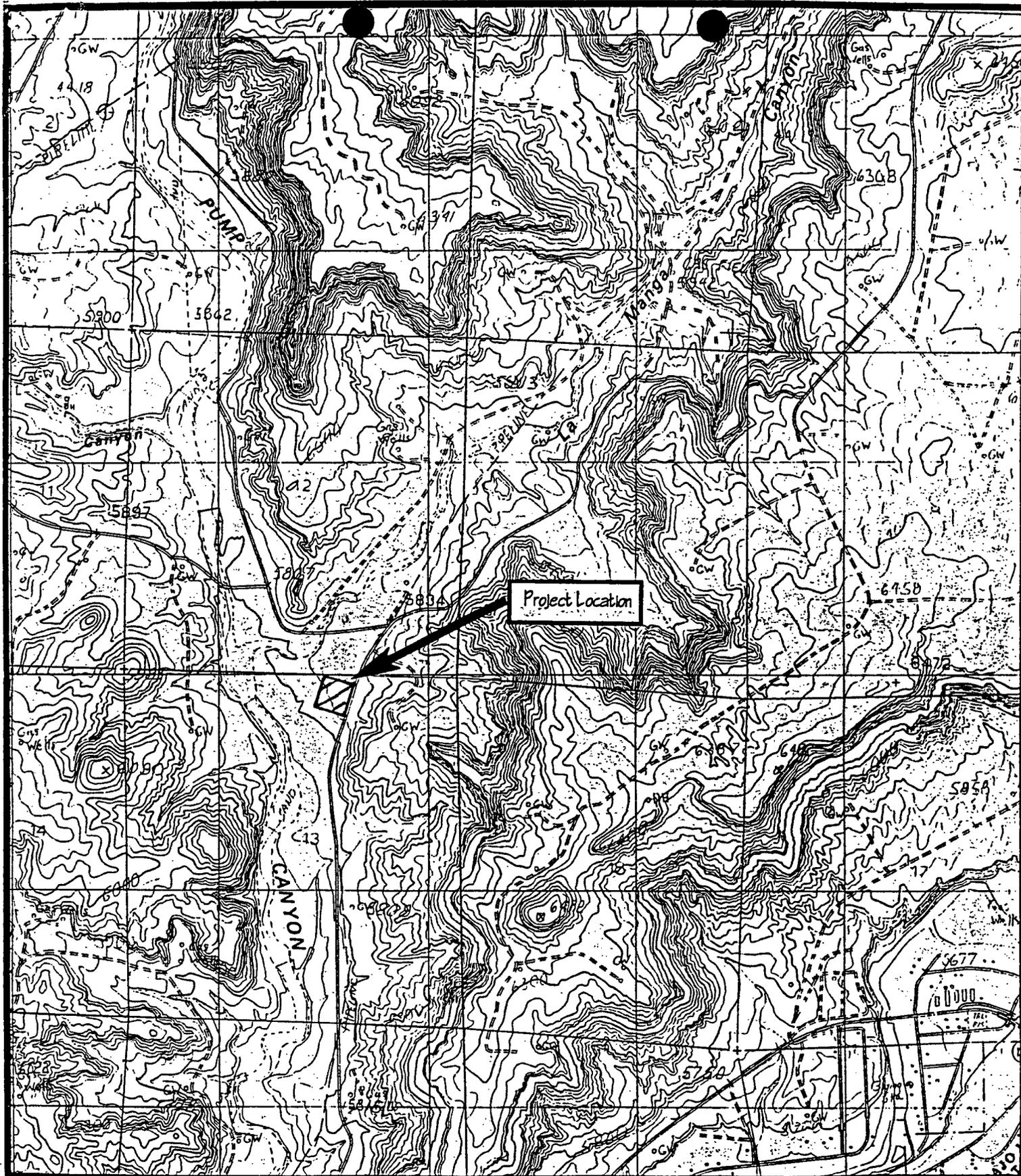
If you have further questions or need further assistance with this matter please
do not hesitate to call me at 505-325-0267.

Sincerely;
Basin Engineering, inc.



John E. Casey, P.E.
President

Attachments



Vicinity Map
 Buena Vista Geotechnical Investigation Report
 Meridian Oil Company
 Section 13, T30N, R9W
 San Juan County, New Mexico

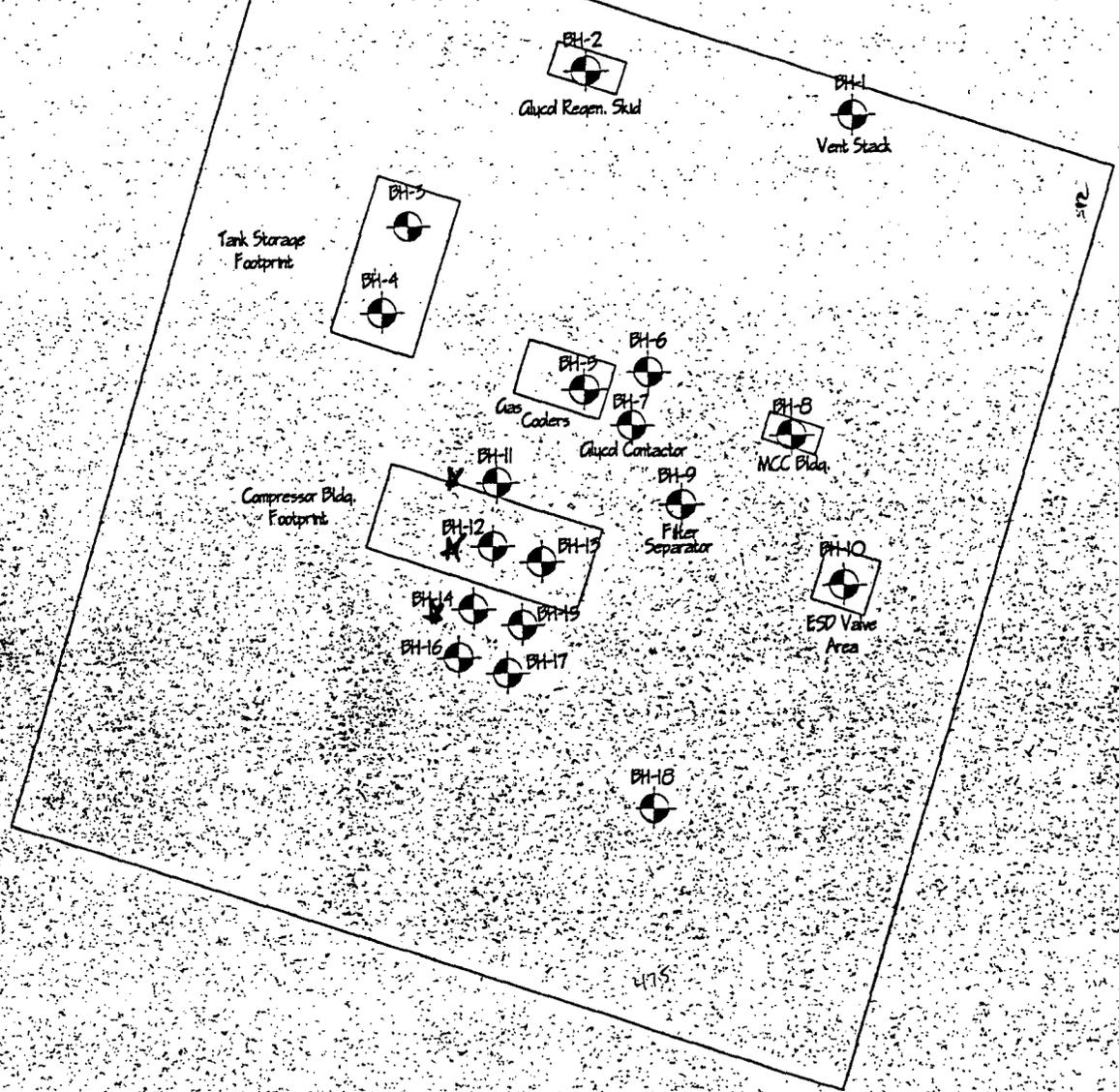
Project No.
 943802

Figure No.
 1

Drawn by JSF	Date	Checked by JEC	Date
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Section Corner

11 12 589° 16' 46" E
14 13 3143.3'



Geotechnical Boring Location & Designation



1 in. = 100 ft.



Site Map

Buena Vista Geotechnical Investigation Report
 Meridian Oil Company
 Section 13, T30N, R9W
 San Juan County, New Mexico

Project No.
943802

Figure No.

2

Drawn by JSF	Date	Checked by JEC	Date
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DRILL HOLE LOG

BORING NO.: BH-12

PROJECT: Buena Vista Compressor Site
 CLIENT: Meridian Oil Company
 LOCATION: Buena Vista Compressor Site
 DRILLER: M. Donahoe
 DRILL RIG: CME - 55
 DEPTH TO WATER >

PROJECT NO.: 943802
 DATE: 11-9-94
 ELEVATION: 5827.6 MSL
 LOGGED BY: R. Johnston

INITIAL: 30.5 feet

AT COMPLETION: 30.5 feet

ELEVATION/ DEPTH	SOIL SYMBOLS, SAMPLERS AND TEST DATA	Description	Water Content %	Dry Density pcf	STANDARD PENETRATION TEST					
					DEPTH	N	CURVE 10 30 50			
0		Poorly Graded SAND with silt, medium grained, light brown, moderately dense, slightly moist, SP-SM								
5825										
5	10/6 8/6 9/6		6.0	93.7	4.5-6	17				
5820										
10	7/6 8/6 12/6		5.3	91.9	9.5-11	20				
5815										
15	3/6 4/6 5/6	SANDY SILT, fine grained, light brown, stiff, slightly moist, ML	9.5	91.3	14.5-16	9				
5810										
20	5/6 7/6 10/6		7.7	89.4	19.5-21	17				
5805										
25	6/6 7/6 6/6	Poorly Graded Sand with Silt, medium grained, light brown, moderately dense, dry, SP-SM	4.7	95.7	24.5-26	13				
5800										
30	8/6 12/6 12/6	Hydrocarbon soil staining at 30.5 feet.	4.5	94.3	29.5-31	24				
5795										

Total Depth 60.0 feet.

This information pertains only to this boring and should not be interpreted as being indicative of the site.

