# **APPENDIX 6-E**

#### WELLS ON AND NEAR THE PERMIT AREA

(Updated from the 1989 Permit Appendix 12D)

Updated September 2011 This appendix contains information pertaining to wells and springs that exist in and adjacent to the mine permit area. The original data was collected in 1985 by Billings and Associates, Inc. (BAI) for Utah International Inc. (UII) for the Navajo Mine permit. Norwest Corporation (Norwest) supplemented the previous information with data summarized by the New Mexico Office of the State Engineer (NMOSE) (2010) as part of the Navajo Nation Water Rights Settlement Agreement, which enumerated the extent of known existing and historic water uses on Navajo Nation Lands. The latter document identified 30 wells located within a two-mile radius of the mine operation. Many of these sites have not been visited and verification of the wells' existence and specific information about well depths, depths to water or water quality have not been verified. Several of the wells identified in the original Appendix 6-E, Addendum12-D-A could not found at the locations identified. However, many of the wells identified in the NMOSE (2010) Navajo Settlement Agreement were also identified in the "Groundwater Operations Manual and Well Survey for Navajo Mine and Vicinity" that was completed by Metric Corporation (1991).

Table 6-E-1 includes eight springs and 52 wells or windmills. Thirty-two are alluvial well. Another 30 wells were present, and one is completed in the Kirtland and 4 are completed in the Pictured Cliffs sandstone (PCS), and 15 are of unknown provenance. Five of the 52 wells used windmills to pump water. Thirty-two wells are used for stock water, two include a domestic use, one well may have had other use(s), and 18 had unknown uses. Monitoring wells were excluded from this tabulation.

Location, identifier, type, and amount of water, depth of water, usage, well completion zone(s), well depth, and water quality information were collected and enumerated where available in Table 6-E-1 and Addendum to Appendix 12-D-A. Information was compiled using an approximate border of the coal seam outcrops on the west to two miles east of the permit boundary extending north to the San Juan River. Generally, five data sources were examined; UII record (Chapter 12, permit NM-0003C), Navajo Nation files, United States Geological Survey computer database WATSTORE, NMOSE files, and scientific publications. Due to stratigraphy in the area and the geologic units that could potentially be affected (Chapter 12, permit NM-0003C); investigated wells were completed in the Alluvium, Kirtland Shale, Fruitland Formation, and Pictured Cliffs Sandstone. A database was developed from an area larger than that defined above to facilitate collection, tabulation, and presentation. Development of these types of databases typically require triangulation coordinates which include, but extend beyond the area of concern. Consequently, many of the wells/springs presented herein, lie outside the region defined above.

Tabulation of collected information is given in Table 6-E-1. The sites are plotted on Figure 6-E-1. Labels for the sites are named initially by the Navajo Nation Settlement Agreement identification labels, with a prefix of W- signifying well, and a prefix of S- meaning spring. Wells preceded by GM- or 13-were derived from the Metric Corporation (1991) study. In the event that a site was also identified in Addendum 12-D-A, the BAI number is shown in parenthesis below the label on Figures 6-E-1. Refer to Addendum 12-D-A, for additional information on any particular well identified with a BAI number (e.g., BAI #11).

None of the wells or springs have been ground truthed. It is not known whether the wells/springs presented here are still in existence, or have been abandoned, plugged, or mined out. It has been our experience that it is not uncommon for wells to become plugged and/or abandoned, particularly within alluvial environments such as the Chaco River.

#### REFERENCES

Arizona State Land Department, Water Resources Report Number Twelve-A, April 1963.

- Metric Corporation, 1991. Groundwater Operations Manual and Well Survey for Navajo Mine and Vicinity, San Juan County, New Mexico. Prepared for BHP-Utah International, Inc. Fruitland, New Mexico. Prepared by Metric Corporation, Albuquerque, NM.
- Myers, Robert G. and E.D. Villanueva. 1986. *Geohydrology of the aquifers that may be affected by the surface mining of coal in the Fruitland Formation in the San Juan Basin, Northwestern New Mexico.* USGS Water-Resources Investigations Report 85-4251. Prepared in cooperation with the US Bureau of Land Management. Albuquerque, NM. 41 pgs.
- New Mexico Institute of Mining & Technology, Hydrologic Report 6, New Mexico Bureau of Mines and Mineral Resources, 1983.
- New Mexico Office of the State Engineer. 2010. Notice of Navajo Nation Expedited Inter Se Proceeding.HydrographicSurvey,AppendixM.<u>http://www.ose.state.nm.us/water-info/NavajoSettlement/Notice2010/AppendixM.pdf</u> (Accessed 20 September 2011).

New Mexico Office of State Engineer Well Records.

- Stone, W.J.; Lyford, F.P.; Frenzel, P.F.; Mizell, N.H.; and Padgett, E.T. 1983. Hydrogeology and Water Resources of San Juan Basin, New Mexico; New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6; 1983; 11 pgs.
- Thorn, C.R., 1993, Water-quality data from the San Juan and Chaco Rivers and selected alluvial aquifers, San Juan County, New Mexico: U.S. Geological Survey Open-File Report 93-84, 41 p.

Utah International Incorporated, Navajo Mine NM-0003C Permit Application Package - Chapter 12.

U.S. Geological Survey, Computer Database, WATSTORE.

Well Name	wQ	Туре	Status	Completion	Stream	Primary Use	Depth to Water (ft)	Total Depth (ft)
	~	~ ~ 1		•			•	NA -
52	Available	Spring			Cottonwood	Unknown	Unknown	Spring
								NA -
53	NA	Spring			Cottonwood	Unknown	Unknown	Spring
								NA -
54	Available	Spring				Unknown	Unknown	Spring
				Improved	Cottonwood			NA -
S-0127 (13R-103)	NA	Spring		Spring	Springs	Stock Water	Unknown	Spring
				Improved				NA -
S-0767	NA	Spring		Spring		Stock Water	Unknown	Spring
								NA -
56	NA	Spring		PCS	San Juan	Unknown	Unknown	Spring
		~ .			Cottonwood			NA -
13R-104	NA	Spring			Springs	Unknown	Unknown	Spring
Little Geyser Spring		~ ·				· · ·		NA -
(G9)	Available	Spring			Chaco	Unknown	Unknown	Spring
W-0202	NA	Well		Alluvium	Chaco	Stock Water	Unknown	7
W-0346 (13R-37,	NA	Well	Unpermitted	Alluvium	Pinabete	Stock Water, Use	6	8
13-8-4)						Unknown		
45	NA	Well		Alluvium	Pinabete/Chaco	Unknown	8	8
51	NA	Well	Dry	Alluvium	Unknown	Unknown	Unknown	8
W-0203 (13-15-5)	NA	Well	Unpermitted	Alluvium	Chaco	Stock Water	Unknown	8
46	Available	Well		Alluvium	Unknown	Unknown	70	9
70	Available	Well		Alluvium		Unknown	7	9
W-0344	Available	Well		Alluvium	Pinabete	Stock Water	7	9
GM-32 (13-15-7)	NA	Well	Unpermitted	Alluvium	Chaco	Monitoring/Livestock	8	9
W-0345								
(13R-48, 13-15-3)	NA	Well	Permitted	Alluvium	Pinabete	Stock Water	7	10
13-15-4	NA	Well	Unpermitted	Alluvium	Chaco	Unknown	8	11
W-0348 (13-8-1)	NA	Well	Unpermitted	Alluvium	Pinabete	Stock Water	9	13
W-0204 (13-15-6)	NA	Well	Unpermitted	Alluvium	Chaco	Stock Water	Unknown	14

 Table 6-E-1: Water Wells and Springs Adjacent to the Navajo Mine

Well Name	WQ	Туре	Status	Completion	Stream	Primary Use	Depth to Water (ft)	Total Depth (ft)
W-0645 (13R-29)	Available	Well	Permitted	Alluvium	Chaco	Stock Water	12	16
W-0519	Treater	,, en	Territica		Chiuco		12	10
(13R-31 #17, G4)	Available	Well	Unpermitted	Alluvium	Chaco	Stock Water	16	16
W-0644 (13R-28A,	Available	Well	•	Alluvium	Cottonwood	Stock Water	Unknown	22
QACW-2B, CWAP- 1)								
57	Available	Well		Alluvium	San Juan	Unknown	7	27
SJ 00248 (G7)	Available	Well		Alluvium	San Juan	DOM	10	35
SJ 00264	NA	Well		Alluvium	San Juan	Stock Water	10	35
GM-22 (13R-38)	NA	Well	Permitted	Alluvium	Pinabete	Monitoring/Livestock	11	47
13-5-1 (Stevenson,								
13-15-2)	NA	Well	Permitted	Alluvium		Unknown	Unknown	Unknown
G5	Available	Well		Alluvium	Chaco	Unknown	Unknown	Unknown
W-0343	NA	Well	Unpermitted	Alluvium		Stock Water	Unknown	Unknown
W-0691 (13-15-8)	NA	Well	Unpermitted	Alluvium	Chaco	Stock Water	Unknown	Unknown
W-0695 (G-2)	Available	Well		Alluvium	San Juan	Stock Water	Unknown	Unknown
13-AW (13T-513)	Available	Well	Unpermitted	Alluvium -		OG well converted to	11	530
				Artesian		Livestock		
USGS SJ-3	Available	Well		Qal	San Juan	Unknown	3	8
146	Available	Well		Qal	San Juan	Unknown	3	9
Wesleyan Navajo								
Mission	Available	Well		Qal	San Juan	Unknown	9	19
R.A. French	Available	Well		Qal	San Juan	Unknown	Unknown	37
				Windmill-				
W-0607	NA	Well		Alluvial	Chaco	Stock Water	18	25
46 (W-0618,13R-28)	NA	Well -	Destroyed	Alluvium	Cottonwood	Stock Water	5	16
		Permitted						
				Kirtland				
41	NA	Well		(Farmington.)	NA	Unknown	40	60
90	NA	Well		PCS		Stock, Domestic	Unknown	131
44	Available	Well		PCS	NA	Unknown	475	804
38	Available	Well		PCS	NA	Unknown	470	1505

								Total
Well Name	WQ	Type	Status	Completion	Stream	Primary Use	Depth to Water (ft)	Depth (ft)
13-7-2	NA	Well	Abandoned	PCS		Unknown	Unknown	Unknown
W-0520 (G-3)	Available	Well		Well	Chaco	Stock Water	Unknown	Unknown
13-7-4	NA	Well	Permitted	Well	Brimhall	Unknown	Unknown	Unknown
GM-35	NA	Well	Unpermitted	Well	Brimhall	Unknown	Unknown	Unknown
GM-36 (13-7-5)	NA	Well	Unpermitted	Well	Brimhall	Unknown	Unknown	Unknown
W-0146	NA	Well		Well		Stock Water	Unknown	Unknown
W-0147	NA	Well		Well		Stock Water	Unknown	Unknown
W-0148	NA	Well		Well		Stock Water	Unknown	Unknown
W-0313	NA	Well		Well		Stock Water	Unknown	Unknown
W-0342	NA	Well		Well	Chaco	Stock Water	Unknown	Unknown
W-0517	NA	Well		Well		Stock Water	Unknown	Unknown
W-0593	NA	Well		Windmill	San Juan	Stock Water	Unknown	Unknown
W-0603	NA	Well		Windmill		Stock Water	Unknown	Unknown
W-0606 (13-15-1)	NA	Well	Unpermitted	Windmill		Stock Water	Unknown	Unknown
W-0686	NA	Well		Windmill		Stock Water	Unknown	Unknown
W-0768 (#10)	NA	Well		Windmill		Stock Water	Unknown	Unknown

NA - Not Available PCS - Pictured Cliffs Sandstone Qal -Quaternary Alluvium NA-Spring- Not applicable, Spring OG - Oil & Gas Addendum 12-D-A BHP-Utah International Well/Spring Data Base

Prepared by: Billings & Associates, Inc. (1985) As part of the 1985 permit reorganization ICR Response 01/89

1985 Reorganization ICR Response 01/89 12-D-6

#### ADDENDUM 12-D-A

#### BHP-Utah Internation Well/Spring Data Base

KEY

- BAI Well #: Billings & Associates, Inc. selected well number identification on Figure 12-D2.
- Location: Well/Spring location based on 1) township range, 2) latitudelongitude, 3) Navajo Nation system, 4) UII name-extrapolated from maps presented in Chpater 12 (PAP).

Ownership: Well/Spring owner.

Source: Source of information collected (see References), 1) tone=Stone et. al., 2) \_EO=State Engineer files, 3) NRI 35-4251 (see references, 4) ALD #12-C=Arizona State Land Department (Navajo Nation files (see References), 5) UII=Utah International files (Chpater 12-PAP), 6) USGS=United States Geological Survey WATSTORE.

Type of Water: Well or Spring.

- Depth of Water: Depth to water from measuring point in given units or feet.
- Usage: Use of water, 1) D=domestic, 2) S=stock, 3) Irr=irrigation, 4) M=monitoring.
- Aquifer: Geologic source of water, 1) Qal=Alluvium, Kpc=Pictured Cliffs, or as given.
- ..... Yield: Information on production capabilities of well/spring.
- Well Daoth: Depth of well in feet or units as given.
- Plotted: Whether location could be identified and plotted on Figure 2.
- Water Quality: Most recent or only water quality information available. Temp=temperature (F), pH=units, Specific Conductivity=umhos/cm, all other units in mg/1.

Remarks: Miscellaneous information pertaining to location.

1985 Reorganization ICR Response 12-D-7

### BHP- UTAH INTERNATIONAL WELL/SPRING DATA BASE

C	
BAI WELL #	1
LOCATION	29.15.11.111
OWNERSHIP	ALAN CLINE
SOURCE	SEO
TYPE OF WATER	WELL
DEPTH OF WATER	25 FT
USAGE	
AQUIFER	WATER SAND (SHALLOW)
WELL YIELD	20 GPM
WELL DEPTH	40 FT
PLOTTED	Y
CATER QUALITY	

A.

REMARKS

1985 Reorganization ICR Response 01/89 12-D-8 BHP- UTAH INTERNATIONAL WELL/SPRING DATA BASE

# C

BAI WELL #	2
LOCATION	29.15.12.211
OWNERSHIP	JOHN LEO KENNEDY
SOURCE	SEO
TYPE OF WATER	WELL
DEPTH OF WATER	32 FT
USAGE	
AQUIFER	WATER BEARING SAND & GRAVEL
WELL YIELD	15 GPM
WELL DEPTH	51 FT
PLOTTED	Y
CATER QUALITY	

REMARKS

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# C

BAI WELL #	3
LOCATION	29.15.12.211
OWNERSHIP	DAN BOOTH
SOURCE	SEO
TYPE OF WATER	WELL
DEPTH OF WATER	30 FT
USAGE	
AQUIFER	WATER BEARING SAND & GRAVEL
WELL YIELD	15 GPM
WELL DEPTH	30 FT
PLOTTED	Y
CATER QUALITY	

#### REMARKS

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BAI WELL #	4
LOCATION	29.16.3.2422
OWNERSHIP	DECA INC.
SOURCE	SEO
TYPE OF WATER	WELL
DEPTH OF WATER	20 FT
USAGE	
AQUIFER	SAND & RIVER GRAVEL
WELL YIELD	6 GPM
WELL DEPTH	34 FT
PLOTTED	Y
CATER QUALITY	



# C

BAI WELL #	5
LOCATION	29.16.3.4322
OWNERSHIP	DECA INC.
SOURCE	SEO
TYPE OF WATER	WELL
DEPTH OF WATER	20 FT
USAGE	
AQUIFER	SAND & GRAVEL
WELL YIELD	4 GPM
WELL DEPTH	32 FT
PLOTTED	Y
CATER QUALITY	

#### REMARKS

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# C

BAI WELL #	6
LOCATION	29.16.4.343
OWNERSHIP	TOM WHEELER
SOURCE	SEO
TYPE OF WATER	WELL
DEPTH OF WATER	10 FT
USAGE	
AQUIFER	SAND & GRAVEL
WELL YIELD	20 GPM
WELL DEPTH	35 FT
PLOTTED	Y
CATER QUALITY	

# C

BAI WELL #	7
LOCATION	29.16.9
OWNERSHIP	LLOYD WHEELER
SOURCE	SEO
TYPE OF WATER	WELL
DEPTH OF WATER	10 FT
USAGE	
AQUIFER	SAND & GRAVEL
WELL YIELD	20 GPM
WELL DEPTH	35 FT
PLOTTED	Y
CATER QUALITY	

#### REMARKS

BILLINGS & ASSOCIATES, INC.

# C

BAI WELL #	8
LOCATION	29.16.4.42
OWNERSHIP	JIM ROGERS
SOURCE	SEO
TYPE OF WATER	WELL
DEPTH OF WATER	30 FT
JSAGE	
AQUIFER	GRAVEL & SAND
WELL YIELD	15 GPM
WELL DEPTH	55 FT
PLOTTED	Y
CATER QUALITY	

# C

BAI WELL #	9
LOCATION	29.15.12.412
OWNERSHIP	DAVID R. KNOLL
SOURCE	SEO
TYPE OF WATER	WELL
DEPTH OF WATER	110 FT
USAGE	
AQUIFER	GRAVEL
WELL YIELD	15 GPM
WELL DEPTH	
PLOTTED	Y
CATER QUALITY	



# C

BAI WELL #	10
LOCATION	29.15.11.21
OWNERSHIP	INTERSTATE GATHERING CORP
SOURCE	SEO
TYPE OF WATER	WELL
DEPTH OF WATER	45 FT
USAGE	
AQUIFER	RIVER ROCK
WELL YIELD	40 GPM
WELL DEPTH	60 FT
PLOTTED	Y
CATER QUALITY	



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# C

BAI WELL #	11
LOCATION	29.15.4.143
OWNERSHIP	HAL D. BENSON
SOURCE	SEO
TYPE OF WATER	WELL
DEPTH OF WATER	22 FT
USAGE	
AQUIFER	GRAVEL
WELL YIELD	20 GPM
WELL DEPTH	44 FT
PLOTTED	Y
CATER QUALITY	



# C

BAI WELL #	12
LOCATION	29.15.11.131
OWNERSHIP	ALVIN HILT
SOURCE	SEO
TYPE OF WATER	WELL
DEPTH OF WATER	
USAGE	
AQUIFER	VINTER BEARING SAND & GRAVEL
WELL YIELD	15 GPM
WELL DEPTH	26 FT
PLOTTED	Y
CVATER QUALITY	

#### REMARKS

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BAI WELL #	13
LOCATION	29.15.11.131
OWNERSHIP	LENORA M. HOGUE
SOURCE	SEO
TYPE OF WATER	WELL
DEPTH OF WATER	9 FT
USAGE	
AQUIFER	WATER BEARING ANND & GRAVEL
WELL YIELD	15 GPM
WELL DEPTH	25 FT
PLOTTED	Y
CATER QUALITY	

#### REMARKS

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# C

28
362208.108341201
WRI 85-4251
WELL
12.88
ALLUVIAL
38 FT
Y

#### REMARKS

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BILLINGS & ASSOCIATES, INC.

# C

BAI WELL #	29
LOCATION	362210.108341001
OWNERSHIP	
SOURCE	WRI 85-4251
TYPE OF WATER	WELL
DEPTH OF WATER	7.55
USAGE	
AQUIFER	ALLUVIAL
WELL YIELD	
WELL DEPTH	70 FT
PLOTTED	Y
CATER QUALITY	

#### REMARKS

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BAI WELL #	30
LOCATION	362211.108340601
OWNERSHIP	
SOURCE	WRI 85-4251
TYPE OF WATER	WELL
DEPTH OF WATER	5.15
USAGE	
AQUIFER	ALL- L
WELL YIELD	
WELL DEPTH	47 FT
PLOTTED	Υ
CATER QUALITY	

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#### REMARKS

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# C

BAI WELL #	31
LOCATION	362212.108340701
OWNERSHIP	
SOURCE	WRI 85-4251
TYPE OF WATER	WELL
DEPTH OF WATER	7.50
USAGE	
AQUIFER	ALLUTIAL
WELL YIELD	
WELL DEPTH	8 FT
PLOTTED	Y
CATER QUALITY	CC=1290, PH=8.3, TEMPL=13.0 ICC3=120, Ca=40, Mg=5.2, 12230, BAR= 2, PE32 ICCC2 ICE FO3= CTEALKA=404 CO4=350, CL=11, F=1.5, SiO2=15, TLS=931, STD=960, NO2+NO3=.100, NH3=.290 N=1.3, P=0.480, FE=80

#### REMARKS

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L	
BAI WELL #	32
LOCATION	362213.108340501
OWNERSHIP	
SOURCE	WRI 85-4251
TYPE OF WATER	WELL
DEPTH OF WATER	9.59
USAGE	
AQUIFER	ALLUVIAL
WELL YIELD	
WELL DEPTH	13 FT
PLOTTED	Y
CWATER QUALITY	SC≖1040, PH=8.0, TEMP.=13.0, CaCO3=130, Ca=42, Mg=5.2, Na=210, SR⊯8, K⊯3.5, HCO3=330, CO3=.00, NLKA=274, SC4=200, CL=9.3, F=1.4, P+C=12, TDS=738, STU=750, NO3=.030, NO2+NO3=.030, Nri3=.460, N=1.0, P=0.080, FE=1800

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BILLINGS & ASSOCIATES, INC.

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No. of Concession, Name

BAI WELL #	33
LOCATION	362217.108335701
OWNERSHIP	
SOURCE	WRI 85-4251
TYPE OF WATER	WELL
DEPTH OF WATER	18.00
USAGE	
AQUIFER	ALLUVIAL
WELL YIELD	
WELL DEPTH	47 FT
PLOTTED	Y
CITER QUALITY	

REMARKS

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BILLINGS & ASSOCIATES, INC.

BAI WELL #	34
LOCATION	362902.108334801
OWNERSHIP	
SOURCE	WRI 85-4251
TYPE OF WATER	WELL
DEPTH OF WATER	7.82
USAGE	
AQUIFER	ALLUVIAL
WELL YIELD	
WELL DEPTH	8 FT
PLOTTED	Y
CTATER QUALITY	

#### REMARKS



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BAI WELL #	35
	363113.108333501
LOCATION	
OWNERSHIP	
SOURCE	WRI 85-4251
TYPE OF WATER	WELL
DEPTH OF WATER	5.29
USAGE	
AQUIFER	ALLUVIAL
WELL YIELD	
WELL DEPTH	11 FT
PLOTTED	Y
CATER QUALITY	50=2700 PH=16, TEMP.=110, C3C 03=290, C3E91, Md=15. ==540 0 MB=11 7e4 5 0 0342 50 003# 00 NUA 0 5 504=1100, CL=36, F=1.6, SiO2=12, TDS=1950, STD=2030, NO3= 1.90, NO2+NO3=1.90, NH3=.020 N=2.1, P=0.110, FE=20, C=2.5

REMARKS

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# C

BAI WELL #	37
LOCATION	364325.108353001
OWNERSHIP	
SOURCE	WRI 85-4251
TYPE OF WATER	WELL
DEPTH OF WATER	3.87
USAGE	
AQUIFER	AL UVIAL
WELL YIELD	
WELL DEPTH	13 FT
PLOTTED	Y
C ATER QUALITY	SC=3580 PH=8 3, TEMP.=22, C1CO3=110, Ca=19, Mg=15, Na=750, CAP=02, Control MCN -040, Control ALMN=197, SO4=100, CL=180 F=2.2, SICE=30, TDS=1410, STD=2400, NO2+NO3=,100, NH3=1.50, N=1.9, P=0.130, FE [20, C=4.1]

REMARKS

BAI WELL #	38
LOCATION	31:8.25-9.40
OWNERSHIP	NAVAJO
SOURCE	ASLD #12-C
TYPE OF WATER	WELL
DEPTH OF WATER	470 FT
USAGE	UN
AQUIFER	FICTURED CLIFFS, CLIFF HOUSE
WELL YIELD	
WELL DEPTH	1505 FT
PLOTTED	Y
CATER QUALITY	SIO2=5.5 Ca=113,Md=69,Na+K=6890, HCO3=271, CO3=0, 0.04 (15) 01,-10 (103,550), 011=18303, C (103=778, SAR=107, SPECIFIC CONDUCTANCE=28900

REMARKS ABANDONED, POOR QUALITY



BAI WELL #	39
LOCATION	31:4.65-13.75
OWNERSHIP	NAVAJO
SOURCE	ASLD #12-C
TYPE OF WATER	WELL
DEPTH OF WATER	DRY
USAGE	UN
AQUIFER	KIRTLAND (FARMINGTON)
WELL YIELD	
WELL DEPTH	105 FT
PLOTTED	Y
CATER QUALITY	

C

REMARKS ABANDONED

**BILLINGS & ASSOCIATES, INC.** 

# C

BAI WELL #	40
LOCATION	31:4.80-13.90
OWNERSHIP	NAVAJO
SOURCE	ASLD #12-C
TYPE OF WATER	WELL
DEPTH OF WATER	DRY
USAGE	NU
AQUIFER	KIRTLAND AND FRUITLAND
WELL YIELD	
WELL DEPTH	915 FT
PLOTTED	Y
C STER QUALITY	

REMARKS ABANDONED



BAI WELL #	41
LOCATION	31:9.0-7.7 <b>A</b>
OWNERSHIP	NAVAJO
SOURCE	ASLD #12-C
TYPE OF WATER	WELL
DEPTH OF WATER	40 FT
USAGE	UN
AQUIFER	KIRTLAND (FARMINC FON)
WELL YIELD	
WELL DEPTH	60 FT
PLOTTED	Y
CATER QUALITY	

C

REMARKS ABANDONED

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BAI WELL #	42
LOCATION	31:5.75-11.10
OWNERSHIP	OLAVAN
SOURCE	ASLD #12-C
TYPE OF WATER	WELL
DEPTH OF WATER	180
USAGE	UN
AQUIFER	KIRTLAND AND FRUD LAND
WELL YIELD	3-4
WELL DEPTH	448 FT
PLOTTED	Y
CATER QUALITY	

REMARKS ORIGINALLY DRILLED TO 521 FEET; ANALYSIS MADE #-1941, ABANDONED

### BILLINGS & ASSOCIATES, INC.

# C

BAI WELL #	44
LOCATION	31:8.20-9.35
OWNERSHIP	NAVAJO
SOURCE	ASLD #12-C
TYPE OF WATER	WELL
DEPTH OF WATER	475
USAGE	S
AQUIFER	PICTUEED CLIFFS
WELL YIELD	2-3
WELL DEPTH	804 FT
PLOTTED	Y
CATER QUALITY	HOO3=789. 003-0, CL=9160, SPECIFIC CONDUCTANCE=25600

REMARKS UNFIT FOR HUMAN CONSUMPTION

# C

BAI WELL #	45
LOCATION	31:5.20-1.85
OWNERSHIP	NAVAJO
SOURCE	ASLD #12-C
TYPE OF WATER	WELL
DEPTH OF WATER	25.2
USAGE	D,S
AQUIFER	ALLUVIUM
WELL YIELD	3-4
WELL DEPTH	65 FT
PLOTTED	Υ
CATER QUALITY	TEMP=58, SIO2=19,Ca=69, Mg=17, Na+K=364, HCO3=598, 203=0, 304=456, CE -45 F=1 0,NO3=105 / TDS=1270, ObCO3=240, SAR=10, SPECIFIC CONDUCTANCE=1870, PH=7.9

REMARKS

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BAI WELL #	46 31:10.35-10.00
OWNERSHIP	NAVAJO
SOURCE	ASLD #12-C
TYPE OF WATER	DUG WELL
DEPTH OF WATER	7.3
USAGE	D, S
AQUIFER	ALLUVIUM
WELL YIELD	
WELL DEPTH	9 FT
PLOTTED	Y
CATER QUALITY	FEMP ⊭65, SIO2≠19.Ca= .34, M(;=105, Na+K=521, HCO3=342, CO3=0, SO4≠+370, CL= .3, F+3 ≥ C3=2.3, TDS=2780, CaCO3=1020, SAR=7.1, SPECIFIC CONDUCTANCE=3500, PH=7.9

REMARKS

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BAI WELL #	49
LOCATION	31:4.10-5.45
OWNERSHIP	NAVAJO
SOURCE	ASLD #12-C
TYPE OF WATER	DUG WELL
DEPTH OF WATER	5.8
USAGE	S
AQUIFER	ALLUHTUM
WELL YIELD	
WELL DEPTH	6 FT
PLOTTED	Y
CVATER QUALITY	TEMP-69, SiO2=12, Ca=107, Mg=29, Ra+K=189, HCO3=285, いつえ 3O4=275, TL=C2 9, ND3=1, TD3=1000, CaCU=1382, SAR=4.2, SPECIFIC CC: DUCTANCE=1390

#### REMARKS

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BAI WELL #	50
LOCATION	31:4.55-5.45
OWNERSHIP	NAVAJO
SOURCE	ASLD #12-C
TYPE OF WATER	DUG WELL
DEPTH OF WATER	DRY
USAGE	UN
AQUIFER	ALLUVIUM
WELL YIELD	
WELL DEPTH	
PLOTTED	Y
CATER QUALITY	

REMARKS FILLED WITH SAND AND ABANDONED



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BAI WELL #	51
LOCATION	31:9.15-7.55
OWNERSHIP	NAVAJO
SOURCE	ASLD #12-C
TYPE OF WATER	DUG WELL
DEPTH OF WATER	DRY
USAGE	UN
AQUIFER	ALLUVIUM
WELL YIELD	
WELL DEPTH	8 FT
PLOTTED	Y
CATER QUALITY	

REMARKS ABANLONED

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BAI WELL #	52
	31:8.70-15.25
LOCATION	51.0.70-13.25
OWNERSHIP	NAVAJO
SOURCE	ASLD #12-C
TYPE OF WATER	SPRING
DEPTH OF WATER	
USAGE	DS
AQUIFER	KIRTLA IIU (FARMINGT N)
WELL YIELD	
WELL DEPTH	
PLOTTED	Y
CATER QUALITY	TEMP=54, SIO2=12, Ca=18, Mg=5.7, Na+K=320, HCO3= 404. CC3=5, SIO4=203, DL=+39, 所は 9, 1903=3, TC3+310, OL=204. SAR=17, ISPECIFIC CONDUCTANCE=1460, PH=8.3

REMARKS

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BAI WELL #	53
LOCATION	31:8.65-15.15
OWNERSHIP	NAVAJO
SOURCE	ASLD #12-C
TYPE OF WATER	SPRING
DEPTH OF WATER	
USAGE	D, <b>S</b>
AQUIFER	KIRTLAND (FARMUG)
WELL YIELD	
WELL DEPTH	
PLOTTED	Y
CATER QUALITY	

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#### REMARKS

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BAI WELL #	54
LOCATION	31:9.65-1.05
OWNERSHIP	NAVAJO
SOURCE	ASLD #12-C
TYPE OF WATER	SPRING
DEPTH OF WATER	
UBAGE	D,S,IRR
AQUIFER	TERA NO E
WELL YIELD	
WELL DEPTH	
PLOTTED	Y
CATTR QUALITY	TEMP=56, SIC: 27

SAR=1.6, SPEC/FIC CONDUCTANCE=1023, PH=7.4

REMARKS

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BAI WELL #	55
LOCATION	31:3.10-2.35
OWNERSHIP	NAVAJO
SOURCE	ASLD #12-C
TYPE OF WATER	SPRING
DEPTH OF WATER	
USAGE	S
AQUIFER	ALLUVIUM
WELL YIELD	
WELL DEPTH	
PLOTTED	Y

CATER QUALITY

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REMARKS DUG OUT BY INDIANS

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BAI WELL #	56
LOCATION	31:9.55-0.85
OWNERSHIP	NAVAJO
SOURCE	ASLD #12-C
TYPE OF WATER	SPRING
DEPTH OF WATER	
USAGE	D,S
AQUIFER	PICTURED UL IFS
WELL YIELD	
WELL DEPTH	
PLOTTED	Y
CATER QUALITY	TEMP=62, S(O2=28, O3=1, -), Mg=28,Na+K=77, HCO3=392, (-D2=0, -D-=+(-),1, -1, -7, -1, O3=3,1, TDS=624, CaCO2=364, SAR=1.8, SPECIFIC CONDUCTANCE=937

REMARKS

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BAI WELL #	57
LOCATION	32:0.30-0.20
OWNERSHIP	NAVAJO
SOURCE	ASLD #12-C
TYPE OF WATER	DRILLED WELL
DEPTH OF WATER	6,7
USAGE	S
AQUIFER	A. LUVIUM
WELL YIELD	3-4
WELL DEPTH	27 FT
PLOTTED	м м
CHATER QUALITY	TEMP=60, SIC (=13, Ca=476, Mg=378, Na+K=530, HCO3=417, CC3 = SC 4=3665, CC+202, F=6, NC3=99, (2, B=+977) CaCO3=2740, SAR=4.4, PH=7.4

REMARKS

BAI WELL #	58
LOCATION	32:3.35-16.20
OWNERSHIP	NAVAJO
SOURCE	ASLD #12-C
TYPE OF WATER	DUG WELL
DEPTH OF WATER	11.4
USAGE	D,S
AQUIFER	ASUVIUM
WELL YIELD	
WELL DEPTH	12.5 FT
PLOTTED	Y
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 CATER
 Q12 + LITY
 TEMP=54, 3IO2=12, Ca=167, Mg=27, Na+K=494, HCO3=268, OC 3=0, SO4=1230, CL=32, F=1, 1, HC3=2.2, TDS=2150, CaCO3=528, SAR=9.3, PH=7.0

REMARKS

BAI WELL #	59
LOCATION	32:1.85-16.60
OWNERSHIP	OLAVAN
SOURCE	ASLD #12-C
TYPE OF WATER	DUG WELL
DEPTH OF WATER	4.9
USAGE	D,S
AQUIFER	ALLUVIUM
WELL YIELD	
WELL DEPTH	6.5 FT
PLOTTED	Y
CATER QUALITY	TEMP=54, HCO3=411, C03=0, CL=55, CACO3=382,3PEC(FIC CONCUGT NOE=3420, PH=7 5

REMARKS

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BHP- UTAH INTERNATIONAL WELL/SPRING DATA BASE

BAI WELL #	60
LOCATION	32:3.85-14.90
OWNERSHIP	NAVAJO
SOURCE	ADSLD #12-C
TYPE OF WATER	DUG WELL
DEPTH OF WATER	7.5
USAGE	D,S
AQUIFER	ALLUVIUM
WELL YIELD	
WELL DEPTH	10.5 F7
PLOTTED	Υ
CATER QUALITY	

REMARKS

C	
BAI WELL #	61
LOCATION	32:3.50-12.45
OWNERSHIP	NAVAJO
SOURCE	ASLD #12-C
TYPE OF WATER	DUG WELL
DEPTH OF WATER	12.2
USAGE	D,S
AQUIFER	ALLUVIUM
WELL YIELD	
WELL DEPTH	16 FT
PLOTTED	Y
CATER QUALITY	TEM 1=60, SIO2=14, Ca=151, Mg=37, Na DD = 1, NO4=1700, CL=45, F=10, 1005

 
 YATER QUALITY
 TEM 1=60, SIO2=14, Ca=151, Mg=37, Na+K=827, HCO2=473, DOI: 10. NO4=1100. CL=45, F=10, MCD=7.0, TDS=3110. CacC03=528, SAR=16, SPECIFIC CC =DUCTANCE=4000, PH=7.0

REMARKS

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BAI WELL #	67
LOCATION	48:13.65-4.15
OWNERSHIP	NAVAJO
SOURCE	ASLD #12-C
TYPE OF WATER	DUG WELL
DEPTH OF WATER	6.2
USAGE	UN
AQUIFER	ALLUVIUM
WELL YIELD	
WELL DEPTH	7.5 FT
PLOTTED	Y
CATER QUALITY	

REMARKS TEMPORARY

BAI WELL #	68
LOCATION	48:11.25-4.85
OWNERSHIP	NAVAJO
SOURCE	ASLD #12-C
TYPE OF WATER	DUG WELL
DEPTH OF WATER	9
USAGE	D,S
AQUIFER	ALLUVIUM
WELL YIELD	
WELL DEPTH	11 FT
PLOTTED	Y
CATER QUALITY	TEMP=63, SIO2=16, Ca=145, Mg=15, Na+K=689, HCO3=284, CO3=0, SC4=1780, CL=24, F=2.4, NCD=3 9, YDS=2627 CaCO3=424, SAR=15, SPECIFIC CONDUCTANCE=3410

REMARKS

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BAI WELL #	69
LOCATION	48:10.45-4.80
OWNERSHIP	NAVAJO
SOURCE	ASLD #12-C
TYPE OF WATER	
DEPTH OF WATER	6.4
USAGE	D,S
AQUIFER	ALL DVIUM
WELL YIELD	
WELL DEPTH	8.5 FT
PLOTTED	Y
CATER QUALITY	TEMP=62. HCO3=280, CI=21, SPECIFIC CONDUCTANCE=3830

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C<sup>K16</sup>

REMARKS WELL ENCLOSED BY FENCE



#### 12-D-53

#### BHP- UTAH INTERNATIONAL WELL/SPRING DATA BASE

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BAI WELL #	70
LOCATION	48:13.40-0.65
OWNERSHIP	NAVAJO
SOURCE	ASLD #12-C
TYPE OF WATER	DUG WELL
DEPTH OF WATER	6.8
USAGE	D,S
AQUIFER	ALLUVIUM
WELL YIELD	
WELL DEPTH	9 FT
PLOTTED	Y
CATER QUALITY	TEMP=62, SIO2=14, Ca=62, Mg=8.5, Na+K=674, HOM3=465, PM3=0, SO4=, P79, OL=30, F=17, NO2+4,3, UP, HOM CaCO3=1908, SAR=20, SPECIFIC CONDUCTANCE=2780

REMARKS TROUGH BURIED BY SAND



# C

BAI WELL #	85
LOCATION	48:4.40-2.00
OWNERSHIP	NAVAJO
SOURCE	ASLD #12-C
TYPE OF WATER	SPRING
DEPTH OF WATER	
USAGE	S
AQUIFER	(IR) LAND (FARMINGTON)
WELL YIELD	2
WELL DEPTH	
PLOTTED	Y
CATER QUALITY	TEMP=53, GIC2=11, D2=476, Mg=86, a+3=402, HCO3=149, D132, D123, 2014, C1145, F + MC - 2, TD3=, LD, CaCO3=1540, GAR=4.5, SPECIFIC CONDUCTANCE=3670, PH=7, 1

REMARKS

BILLINGS & ASSOCIATES, INC.

12-D-54

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BAI WELL #	88
LOCATION	48:2.95-3.90
OWNERSHIP	OLAVAJO
SOURCE	ASLD #12-C
TYPE OF WATER	SPRING
DEPTH OF WATER	
USAGE	S
AQUIFER	ALLOVIUM
WELL YIELD	1.5 -
WELL DEPTH	
PLOTTED	Y
CATER QUALITY	TEMP=58, SIO2=20, Ca=464, Mg=62, Na+K=167, HOO3=222 T10-0, COL - 460, TL-22, F=7, NC6=1, TDB=1040, CaCC3=1411, BAB=1,9, SPECIEIC CONDUCTANCE=2650

REMARKS WASH COVERED WITH SEEPS

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BAI WELL #	90
LOCATION	49:4.8-6.0 A
OWNERSHIP	NAVAJO
SOURCE	ASLD #12-C
TYPE OF WATER	GULF OIL CO. SHOT HOLD
DEPTH OF WATER	FLOW
USAGE	D,S
AQUIFER	PICTURED CLIFFS
WELL YIELD	2 E
WELL DEPTH	131 FT
PLOTTED	Y
CATER QUALITY	

REMARKS FLOWING SEISMOGRAPH SHOT HOLE



## C

BAI WELL #	90
LOCATION	49:4.8-6.0 A
OWNERSHIP	NAVAJO
SOURCE	ASLD #12-C
TYPE OF WATER	GULF OIL CO. SHOT HOLD
DEPTH OF WATER	FLOW
USAGE	D,S
AQUIFER	E U FURED CLIFFS
WELL YIELD	2 E
WELL DEPTH	131 FT
PLOTTED	Y
CATER QUALITY	

REMARKS FLOWING SEISMOGRAPH SHOT HOLE

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## C

BAI WELL #	91
LOCATION	49:0.80-2.70
OWNERSHIP	NAVAJO
SOURCE	ASLD #12-C
TYPE OF WATER	DUG WELL
DEPTH OF WATER	7
USAGE	D
AQUIFER	ALLUVIUM
WELL YIELD	
WELL DEPTH	8 FT
PLOTTED	Y
CATER QUALITY	

#### REMARKS

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BAI WELL #	93
LOCATION	49:0.45-2.35
OWNERSHIP	NAVAJO
SOURCE	ASLD #12-C
TYPE OF WATER	DUG WELL
DEPTH OF WATER	7.4
USAGE	D,S
AQUIFER	ALLU IUM
WELL YIELD	
WELL DEPTH	8.5
PLOTTED	Y
CATER QUALITY	TEMP=62, HOO3=260, CL=23, SPEC FIC CONDUCTANCE-C 10

REMARKS

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BAI WELL #	95
LOCATION	WATSON PIT (EAST) Kf-1
OWNERSHIP	UN
SOURCE	Uli
TYPE OF WATER	WELL
DEPTH OF WATER	
USAGE	М
AQUIFER	CAUITLANL & RTLAND
WELL YIELD	
WELL DEPTH	145 FT
PLOTTED	N
CATER QUALITY	

#### REMARKS



BAI WELL #	96
LOCATION	CUSTER PIT KI-2
OWNERSHIP	UII
SOURCE	Uti
TYPE OF WATER	WELL
DEPTH OF WATER	
USAGE	М
AQUIFER	FPUITLAND
WELL YIELD	NOTE: NO WATER
WELL DEPTH	172.0 FT
PLOTTED	N
CATER QUALITY	

REMARKS

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Kf-3

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BAI WELL #	97
LOCATION	DOBY PIT K
OWNERSHIP	UII
SOURCE	UII
TYPE OF WATER	WELL
DEPTH OF WATER	
USAGE	М
AQUIFER	FRUITLAND
WELL YIELD	
WELL DEPTH	149 FT
PLOTTED	N
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WATER QUALITY

REMARKS

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BAI WELL # LOCATION	98 YAZZIE PIT KI-4
OWNERSHIP	UN
SOURCE	UN
TYPE OF WATER	WELL
DEPTH OF WATER	
USAGE	M
AQUIFER	- ITLINO
WELL YIELD	AFTER 7 DAYS <1 GAL/MIN
WELL DEPTH	138 FT
PLOTTED	Ν
CATER QUALITY	

#### REMARKS

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BAI WELL #	9 <b>9</b>
LOCATION	AREA III KI-9A
OWNERSHIP	U
SOURCE	UNI
TYPE OF WATER	WELL
DEPTH OF WATER	
USAGE	М
AGUIFER	FRUITLAND
WELL YIELD	
WELL DEPTH	183 FT
PLOTTED	Ν
CATER QUALITY	

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#### REMARKS

### BAI WELL # 100 LOCATION AREA III Kf-98 OWNERSHIP UI SOURCE UI SOURCE UI TYPE OF WATER WELL DEPTH OF WATER WELL USAGE M AQUIFER FRUITLAND WELL YIELD FRUITLAND

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CATER QUALITY

#### REMARKS

#### BAI WELL # 101 LOCATION AREA III Kf-9C OWNERSHIP U UII SOURCE WELL TYPE OF WATER ? DEPTH OF WATER USAGE Μ FRUITLAND AQUIFER WELL YIELD WELL DEPTH 233 FT N PLOTTED

CATER QUALITY

C.

REMARKS

# C

BAI WELL #	102
LOCATION	AREA III SOUTH Kf-10A
OWNERSHIP	Uli
SOURCE	UI
TYPE OF WATER	WELL
DEPTH OF WATER	
USAGE	М
AQUIFER	FRUITLAND
WELL YIELD	
WELL DEPTH	?
PLOTTED	Ν
CATER QUALITY	

#### REMARKS



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BAI WELL # Location	103 NORTH END YWATSON Kf-11
OWNERSHIP	Ult
SOURCE	UII
TYPE OF WATER	WELL
DEPTH OF WATER	
USAGE	Μ
AQUIFER	KIRTLAND/FRU. TLAND
WELL YIELD	
WELL DEPTH	100 FT
LOTTED	Ν
CATER QUALITY	

#### REMARKS

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BAI WELL #	104
LOCATION	SJKF 84 NO 3
OWNERSHIP	UN
SOURCE	UNI
TYPE OF WATER	WELL
DEPTH OF WATER	9.34
USAGE	Μ
AQUIFER	FRUITLAND
WELL YIELD	
WELL DEPTH	120 FT
PLOTTED	Y
CATER QUALITY	Al=0.1, As=0.001, Ba=169.0, B=1.43 Cd=0.005, Da=700, Dr=0.012, Co=0.164, Cu=0.002, F+=1613, Pb+0.014, Mg=278.0, Mn=0.71, Hg=0.001, Mo=0.001, Ni=0.098, K=61.0, Se=0.001, Ag=0.002, Na=15632.0, V=0.1, Zn=0.05, HCC3=552, CC3=0, Cl=28200.0, CN=0.05, F=.97, N=581.0, PHENOLS=0.007, P=0.67, SO4=10.0, SO3=0.05, SAR=126.48 TCC-IR=6, OH=0, CONDUCTIVITY=53000 PH=7.29, TDS=50810.0

REMARKS

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BAI WELL #	105
LOCATION	SJKF 84 NO 2
OWNERSHIP	Una
SOURCE	UI
TYPE OF WATER	WELL
DEPTH OF WATER	20.27
USAGE	Μ
AQUIFER	FRUITLAND
WELL YIELD	
WELL DEPTH	144.0 FT
PLOTTED	Y
CATER QUALITY	Al=0.01, As=0 101, Ba=111, P=1 13 12, 0.012, Ca=515 Cr=0 005, Cr=0.129, D1=0.003, Fe=0.003, rh= 1017 Mg=222, 100 - 2.10, Hg=0.001, Mo=0.01, Ni=0.06, K=56.0, Se=0.001, Ag=0 202, Na=13456.0, V=0.102, Zn=0.08, HCO3=774, CO3=0, C =23800.0, CN=0.75 F= 92, N=554.0, PH INOLS=0.001, P=0.77, SO4=10.0, SO2 C = 544.04 A1 FOC PL 20 CH 2

SO3=0 .5, SAR=124.84, TOC -R=10, OH=0, CONDUCTIVITY=46500, PH=7.03, TDS=43035.0

REMARKS

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BAI WELL #	106
LOCATION	SJKF 84 NO 1
OWNERSHIP	UN
SOURCE	UNI
TYPE OF WATER	WELL
DEPTH OF WATER	
USAGE	М
AQUIFER	FRUITLAND
WELL YIELD	
WELL DEPTH	140.0
PLOTTED	Y
CIATER QUALITY	



## C

BAI WELL #	107
LOCATION	Kf8422 NO 8
OWNERSHIP	UII
SOURCE	UI
TYPE OF WATER	WELL
DEPTH OF WATER	77.57
USAGE	М
AQUIFER	FRUITLAND
WELL YIELD	
WELL DEPTH	125 FT
PLOTTED	Y
CATER QUALITY	

### REMARKS

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BILLINGS & ASSOCIATES, INC.

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12-D-73

### C

BAI WELL #	108
LOCATION	Kf8422 NO 7
OWNERSHIP	UII
SOURCE	UII
TYPE OF WATER	WELL
DEPTH OF WATER	79.06
USAGE	М
AQUIFER	FRUITLAND
WELL YIELD	
WELL DEPTH	140 FT
PLOTTED	Y
GATER QUALITY	

REMARKS

BILLINGS & ASSOCIATES, INC.

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BAI WELL #	109
LOCATION	Kf 8422 NO 4
OWNERSHIP	UR
SOURCE	UI
TYPE OF WATER	WELL
DEPTH OF WATER	89.42
USAGE	Μ
AQUIFER	FRUITLAND
WELL YIELD	
WELL DEPTH	202 FT
PLOTTED	Y
CATER QUALITY	M=9.035, As=0.001, Ba=4.10, B=0.50, Cd=0.001, Ca=27.4 .r=3.003, To=3.023, Tu=3.006, To=3.001, Phot 107, Mg=18.7, Mn=0.16 Hg=0.002, Mo=0.01, Ni=0.01, K=15.3, Se=0.001, Ag=0.001, Na=2866.0, V=0.05, Zn=0.05, HCO3=680, CO3=78, Cl=3420, CN=0.01, F=1.28, N=77.4, PHENC1, =0.001, P=0.15, SO4=10.0, SO3=0.025, SAR=103.35, TCO-21.05, OH=0, CONDUCTIVITY=13000, PH=7.94, TDS=8610.0

REMARKS

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BAI WELL #	110
LOCATION	Kf 8422 NO 3
OWNERSHIP	UI
SOURCE	UI
TYPE OF WATER	WELL
DEPTH OF WATER	
USAGE	M
AQULER	FRUMLAND
WELL YIELD	
WELL DEPTH	220 FT
PLOTTED	Y
CATER QUALITY	Al=0.033, As=0.001, Ba=2.86, B=0.46, Cd=0.002, Ca=44.4 Cr 003,

CONDUCTIVITY=12000, PH=7.86, TDS=8035.0

REMARKS

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## C

BAI WELL #	111
LOCATION	KI 8422 NO 2
OWNERSHIP	Ult
SOURCE	UI
TYPE OF WATER	WELL
DEPTH OF WATER	98.18
USAGE	М
AQUIFER	57 HL 0
WELL YIELD	
WELL DEPTH	237
PLOTTED	Y
CATER QUALITY	Ma0.05. As=0.001 Ba=1 32, B=0 2, Od=0.001, Ca=45.8, Me0.013, Co=0.123, Diversion and Communication of the communication Mn=0.32, Hg=0.002, Mo=0.01, Mi=0.01, K=13.9, Se=0.001, Ag=0.001, Na=2064.0, V=0.05, Zn=0.05, HCO3=620, CO3=48, Ci=3220, CN=0.01, F=1.11, N=75.7, PHEC CLS=0.001, P=0.15, SO4=19.0, SO3=0.025, SAR=68.76, TCC-iF=11, OH=0, CONDUC TVITY=9700, PH=8.05, TDS=6125

REMARKS

# C

BAI WELL #	112
LOCATION	Kf8421 NO 7
OWNERSHIP	UN
SOURCE	Uli
TYPE OF WATER	WELL
DEPTH OF WATER	36.02
USAGE	М
AGUIFER	FRUITLAND
WELL YIELD	
WELL DEPTH	75 FT
PLOTTED	Y
CATER QUALITY	

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BAI WELL #	113
LOCATION	Kf 84 21 NO 4
OWNERSHIP	UI
SOURCE	UII
TYPE OF WATER	WELL
DEPTH OF WATER	45.48
USAGE	М
AQUIFER	r AUITLAND
WELL YIELD	
WELL DEPTH	95.5 FT (170.0)
PLOTTED	Y
CATER QUALITY	

## C

BAI WELL #	114
LOCATION	Kf 8421 NO 2- NO 3
OWNERSHIP	UNI
SOURCE	UII
TYPE OF WATER	WELL
DEPTH OF WATER	49.74
USAGE	Μ
AQUIFER	FELITLAND
WELL YIELD	
WELL DEPTH	118 FT
PLOTTED	Υ
CLATER QUALITY	Al=1.067, As=0.001, Ba=3.45, B=0.13, Cd=0.001, Ca=460.0, Dr.J.22, Co=0.017, Cl=0.701, Tl=0.517, Pb=0.069, Mg=0.2, Mn=0.002, Hg=0.001, Mo=0.021, Ni=0.013, K=70.7, Se=0.001, Ag=0.001, Na=2307.0, V=0.05, Zn=0.05, HCO3=0, CO3=0, Cl=2360, CM=0.043, F=0.91, N=81.0, PHENOLS=0.042, P=0.15, SO4=10.0, SO3=0.025, SAR=20.61, TOO-IR=18, OH=2460,

CONDUCTIVITY=16000, PH=12.20, TDS=11925

## C

BAI WELL #	115
LOCATION	Kf8420 NO 4
OWNERSHIP	UN
SOURCE	UI
TYPE OF WATER	WELL
DEPTH OF WATER	91.77
USAGE	Μ
AQUIFER	FRUNLAL.
WELL YIELD	
WELL DEPTH	215.5
PLOTTED	Y
CATER QUALITY	

#### REMARKS

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BAI WELL #	116	
LOCATION	Kf8420 NO 3	
OWNERSHIP	Uli	
SOURCE	UII	
TYPE OF WATER	WELL	
DEPTH OF WATER	154.47	
USAGE	М	
AQUIFER	FRUITLAND	
WELL YIELD		
WELL DEPTH	240 FT	
PLOTTED	Y	

GATER QUALITY

### REMARKS

C.

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## C

BAI WELL #	117
LOCATION	Kf84 18 NO 8
OWNERSHIP	UI
SOURCE	UII
TYPE OF WATER	WELL
DEPTH OF WATER	112.25
USAGE	М
AQUIFER	FRUITLAND
WELL YIELD	
WELL DEPTH	133.0 FT
PLOTTED	Y
CATER QUALITY	

### REMARKS



BILLINGS & ASSOCIATES, INC.

## С

BAI WELL #	118
LOCATION	Kf8418 NO 6
OWNERSHIP	UII
SOURCE	UI
TYPE OF WATER	WELL
DEPTH OF WATER	105
USAGE	М
AQUIFER	-RUITLEND
WELL YIELD	
WELL DEPTH	181 FT
PLOTTED	Y
CATER QUALITY	

#### REMARKS



BILLINGS & ASSOCIATES, INC.

## C

BAI WELL #	119 Kf 8420 NO 7
OWNERSHIP	UNI
SOURCE	UN
TYPE OF WATER	WELL
DEPTH OF WATER	140.05
USAGE	М
AQUIFER	FRUITLAND
WELL YIELD	
WELL DEPTH	190 FT
PLOTTED	Y

CATER QUALITY

BAI WELL #	120
LOCATION	Kf 84 NO 17
OWNERSHIP	UII
SOURCE	UN
TYPE OF WATER	WELL
DEPTH OF WATER	2 <b>42</b>
USAGE	М
AQUIFER	FRUITLAND
WELL YIELD	
WELL DEPTH	310 FT
PLOTTED	Y

C

CATER QUALITY



## C

BAI WELL #	121
LOCATION	<sup>°</sup> CP-1
OWNERSHIP	U
SOURCE	Uti
TYPE OF WATER	WELL
DEPTH OF WATER	DRY
USAGE	М
AQUIFER	ALLUVIUM
WELL YIELD	
WELL DEPTH	6.6 FT
PLOTTED	Y
CATER QUALITY	



## С

BAI WELL #	122
LOCATION	CP-2
OWNERSHIP	UN
SOURCE	UNI
TYPE OF WATER	WELL
DEPTH OF WATER	14.7
USAGE	М
AQUIFER	ALLUVIUM
WELL YIELD	
WELL DEPTH	25.8 FT
PLOTTED	Y
CATER QUALITY	PH=7 3PECIFIC CONDUCTIVITY=+460



BAI WELL #	123
LOCATION	CP-3
OWNERSHIP	U
SOURCE	UN
TYPE OF WATER	WELL
DEPTH OF WATER	14.0
USAGE	Μ
AQUIFER	ALLUVIUM
WELL YIELD	
WELL DEPTH	24.0 FT
PLOTTED	Y
CATER QUALITY	PH=8.5. SPECIFIC CONDUCTIVITY=6600

C

REMARKS

### C

BAI WELL #	124
LOCATION	CP-3A
OWNERSHIP	Uli
SOURCE	Uli
TYPE OF WATER	WELL
DEPTH OF WATER	12.0 FT
USAGE	М
AQUIFER	ALLUVIUM
WELL YIELD	
WELL DEPTH	12.1 FT
PLOTTED	Ν
CATER QUALITY	

#### REMARKS

BAI WELL #	125
LOCATION	CP-4
OWNERSHIP	UN
SOURCE	UI
TYPE OF WATER	WELL
DEPTH OF WATER	DRY
USAGE	М
AQUIFER	ALLUVIUM
WELL YIELD	
WELL DEPTH	4.8 FT
PLOTTED	Y
CATER QUALITY	

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REMARKS

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## С

BAI WELL #	126
LOCATION	CWAP-1
OWNERSHIP	Uli
SOURCE	UII
TYPE OF WATER	WELL
DEPTH OF WATER	
USAGE	М
AQUIFER	ALLUVIUM
WELL YIELD	
WELL DEPTH	21.6 FT
PLOTTED	Y
CATER QUALITY	PH=9.0, SPECIFIC CONDUCTIVITY=2500

REMARKS



12-D-92

## C

BAI WELL #	127
LOCATION	CWAP-2
OWNERSHIP	UNI
SOURCE	UII
TYPE OF WATER	WELL
DEPTH OF WATER	DRY
USAGE	М
AQUIFER	-LEUVIUM
WELL YIELD	
WELL DEPTH	22.0 FT
PLOTTED	Y
CATER QUALITY	

### REMARKS

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BILLINGS & ASSOCIATES, INC.

12-D-93

## C

BAI WELL #	128
LOCATION	CWAP-3
OWNERSHIP	UE
SOURCE	Uli
TYPE OF WATER	WELL
DEPTH OF WATER	DRY
USAGE	М
AQUIFER	ALLUV. JM
WELL YIELD	
WELL DEPTH	8.5 FT
PLOTTED	Y
CATER QUALITY	

REMARKS

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BILLINGS & ASSOCIATES, INC.

## C

BAI WELL #	129
LOCATION	CWAP-4
OWNERSHIP	U
SOURCE	UTI
TYPE OF WATER	WELL
DEPTH OF WATER	DRY
USAGE	М
AQUIFER	ALLUVIUM
WELL YIELD	
WELL DEPTH	16.2 FT
PLOTTED	Y
CATER QUALITY	

#### REMARKS

## C

BAI WELL #	130
LOCATION	GM-18
OWNERSHIP	UII
SOURCE	UNI
TYPE OF WATER	WELL
DEPTH OF WATER	?
USAGE	Μ
AQUIFER	A DED VIEM
WELL YIELD	
WELL DEPTH	
PLOTTED	Y
C JER QUALITY	MO -30.2, BC - 21194, Classe & COR, 2018, Areo,18, Asiao Corol, Barandon, ano anti-areo, 22, mored, 20, Maeco, 31, Siao0.0008, Pseo,001, Znaco.02, NeO 02, USOS=0.008, Fea0.02, Mna0.02, Hga<0.000, 21

REMARKS

## C

BAI WELL #	131
LOCATION	GM-9
OWNERSHIP	UNI
SOURCE	UNI
TYPE OF WATER	WELL
DEPTH OF WATER	
USAGE	М
	L J AUM
WELL YIELD	
WELL DEPTH	20 FT
PLOTTED	Υ
CHATER QUALITY	Mg=44, SO4=440, C12213, TOS=330, M=0.09, 4×=0.0013, Ba=0.14, C121, 1, C11, C1231, C1231, C4, Co=72, C1, C1244, C7 Fe=46, Pb=0.014, Mn=0.19, Mo=0.03, Ni=<0.01, Se=0.0006, Ag=<0.01, Zn=3.0, N=1.5, PO4=0.24, U3O8=0.0019, Fe=0.01, Mg=0.00004

REMARKS



## C

BAI WELL #	132
LOCATION	GM-17
OWNERSHIP	UI
SOURCE	UN
TYPE OF WATER	WELL
DEPTH OF WATER	
USAGE	M
AQUIFER	New Medal
WELL YIELD	
WELL DEPTH	20 FT
PLOTTED	Y
CATER QUALITY	Melenny Frontes - A list - Culler15000 Al- 13, Area0 10005. Biological - Culler - Culler - Culler - Culler
	F=0.03, Fe⇒18.0. : b≠0.22, Mic≈2.3, Mic≈0, i 4, Hi≠0 02, Se=0.0028, Ag≈<≏ 01, Zn=0.57: N=0.7, PO4=0.01, U3O8=0.021, Fe≈0.25, Hg = : : :005

## C

BAI WELL #	133
LOCATION	GM-10
OWNERSHIP	Uli
SOURCE	UN
TYPE OF WATER	WELL
DEPTH OF WATER	
USAGE	М
AQUIFER	ALL VILM
WELL YIELD	
WELL DEPTH	
PLOTTED	Y
CATER QUALITY	PH=8 11, Na=3490, Ca=730, Max250, SO4=4011, Cl=4130, TCS A KOLE INFORMATION FROM STATES AND A CL=20,001, Cr=0.05, Cu=K0.01, Cu=0.030, F=07, Fe=.07, Fl=15, Pb=<0.01, Mn=.92, Mo=<.01, Ni=K0.01, Se=K0.0001, Ag=<0.002, Zn=4.06, N=.10, PCA=K.01, USCP=0.001305, Fe=3.24, 1.7=0.94, Hg=<0.000014, TEMP=0.7.4, SC=18.6 CUNDUCTIVITY=18.6



## C

BAI WELL #	134
LOCATION	Kf 8422 NO 5
OWNERSHIP	U
SOURCE	UN
TYPE OF WATER	WELL
DEPTH OF WATER	
USAGE	
AQUIFER	
WELL YIELD	
WELL DEPTH	
PLOTTED	Y
CATER QUALITY	Al=0.056, As=0.001, Ba=4.37, B=0.56, Cd=0.001, Ca=2R.3, Pr=0.103, Co=0.023, Ou=0.006, FH=0.100, FH=0.006, M=2.2, Mn=0.13 Hg=0.001, Mo=0.012, Ni=0.01, K=15.7, Se=0.001, Ag=0.001, Na=2890.0, V=0.05, Zn=0.05, HCO3=781, CO3=114, Cl=4300, CN=0.01, F=1.43, N=58.5, PHEMOLS=0.001, P=0.15, SO4=44.0, SO3=0.025, SAR=105.31, TCC-IR=6, OH=0, CONDUCTIVITY=12800, PH=8.10, TDS=6275.0

REMARKS



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## C

BAI WELL #	135
LOCATION	Kf 8422 NO 1
OWNERSHIP	UII
SOURCE	UI
TYPE OF WATER	WELL
DEPTH OF WATER	
USAGE	
AQUIFER	
WELL YIELD	
WELL DEPTH	
PLOTTED	Y
CATER QUALITY	Al=0.135. As=0.006, Ba=0.5, B=0.43. Cd=0.001, Ca=11.9, Cr=0.043, Co=0.01, Cu=0.008. Fire 1.009. Fb=0.004, Mg=4.55, Mn=0.28, Hg=0.001, Mo=0.012, N=0.01, K=7.4, Se=0.001, Ag=0.002, Na=1247.0, V=0.05, Zn=0.05, HCO3=919, CO3=102, Cl=320.0, CN=0.083, F=2.03, N=0.53, PHENCL 3=0.004, P=0.15, SO4=2050, SO3=1.4, SAR=78.29, TOC-IR=11, DH=0, CONDUCTIVITY=5500, PH=8.41, TDS=4210.0

## C

BAI WELL #	136
LOCATION	Kf 8421 NO 1
OWNERSHIP	U
SOURCE	UNI
TYPE OF WATER	WELL
DEPTH OF WATER	
USAGE	
AQUIFER	
WELL YIELD	
WELL DEPTH	
PLOTTED	Υ
CATER QUALITY	Al=0.115, As=0.001, Ba=1.32, B=0.36, Cd=0.001, Ca=34.1, $\gamma_{si0}$ 003, $\gamma_{0}$ =0.021, Cu=0.009, Fe+0.007, P5-0.022, Mg=1, 0. Mn=0.097, Hg=0.001, Mo=0.01, Ni=0.01, K=12.1, Se=0.001, Ag=0.001, Na=1901.0, V=0.05, Zn=0.05, HCO3=609, CO3=56.0, $\gamma_{si2}$ 860, CN=0.062, F=.94, N=85.8, PHENOLS=0.001, P=0.15, SO4=10.0, SO3=0.025, SAR=72.52, TOC-IR=11, OH=0, CONDUCTIVITY=9050, PH=8.23, TDS=5730.0

REMARKS

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BAI WELL #	137
LOCATION	SJKF 84 NO 4
OWNERSHIP	Utt
SOURCE	UI
TYPE OF WATER	WELL
DEPTH OF WATER	
USAGE	
AQUIFER	
WELL YIELD	
WELL DEPTH	
PLOTTED	Y
CATER QUALITY	Al=0.176, As=0.001, Ba=4.33, Ba1.57, Od=0.001, Ca=26.5, 0r=0.003.00=0.017, Close (D) 0.04, Ca=20.01, Mg=913.0, Mn=0.11, Hg=0.002, Mo=0.01, Ni=0.01, K=13.5, Se=0.001, Ag=0.001, Na=2642.0, V=0.05, Zn=0.05, HCO3=2649, CO3=276, Cl=2210.0, CN=0.054, F=1.03, N=114.0, PHENOLS=0.001, P=0.15, SO4=10.0, SO3=0.025, SAR=112.43, TOC-IR=17, OH=0, CONDUCTIVITY=10400, PH=8.06, FDS=7370.0

C

BAI WELL #	138
LOCATION	SJKF 84 NO 5
OWNERSHIP	UNI
SOURCE	UI
TYPE OF WATER	WELL
DEPTH OF WATER	
USAGE	
AQUIFER	
WELL YIELD	
WELL DEPTH	
PLOTTED	Y
CATER QUALITY	M=0.082, As=0.001, Ba=.99, B=1.23, Cd=0.001, Ca=5.57, trace 0.03, Co=0.01, Co=0.07, Co=0.01, Ca=5.57, Mn=0.17, rdg=0.001, Mo=0.01, Ni=0.01, K=0.11, Se=0.001, Ag=0.002, Na=16680, V=0.1, Zn=0.05, HCO3=3090, CO3=230, Ci=360, ON=0.03, F=0.07, M=0.32, PHENOLS=0.016, P=0.15, Solution of the complete one on

SC4=10.0, SO3=0.02, 5 AR=143.67, TOC-IR=25, CH=0,

CONDUCTIVITY=5900, PH=8.12, TDS=4470.0

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139 BAI WELL # KF 84 16 LOCATION UI **OWNERSHIP** SOURCE U WELL TYPE OF WATER DEPTH OF WATER USAGE AQJIFER WELL YIELD WELL DEPTH Y PLOTTED Al=0.017, As=0.001, Ba=3.08, B=1.37, Cd=0.001, Ca=35 0, CATER QUALITY Cr=0.003 Co=0.026, Cu=0.005, Fe=0.014, Po= 113, 11g-13.56, Mn=0.42, Hg=0.001, Mo=0.001, Ni=0.01, K=10 3, Se=0.001. Ag=0.002, Na=3496.0, V=0.1, Zn=0.05, HCO3=2084.0, CO3=106, CI=4500.0, CN=0.01, F=0.88, N=91.3, PHENOL 3=0.006, P=0.15, SO4=10.0, SO3=5.75, SAR=126.95 (OC-14 DH-0, CONDUCTIVITY=13800.0, PH=7.74, TDS= -20.0

# C

BAI WELL #	140
LOCATION	KF 84 18 NO 1
OWNERSHIP	UNI
SOURCE	UNI
TYPE OF WATER	WELL
DEPTH OF WATER	
USAGE	
AQUIFER	
WELL YIELD	
WELL DEPTH	
PLOTTED	Y
CATER QUALITY	Ai=0.117 As=0.001, $i_1 \ge 0.5$ , $B = 056$ , $C = 0.001$ , $C = 55.0$ , $C = 0.103$ $i_2 = 0.021$ , $i_3 \ge 0.307$ $f_{3,00}$ , $C7$ $F5$ $i_3 \ge 0.001$ , Mg=1 32, Mn=0.20, Hg=0.001, Mo=0.01, Ni=0.01, K=18.3, Se=0.001, Ag=0.002, Na=2546.0, V=0.1, Zn=0.005, HCO3=813.0, CO3=36, CI=3740.0, CN=0.05, F=0.86, N=105.0 $i_3$ $HENOLS=0.03$ , P=0.15,

REMARKS

SO4=274.0, SO3=0.025, SAR=75 .5, TOC-IR=14, OH=0, CC\*'DUCTIVITY=11500.0, PH=7.73, TDS=7410.0

## C

BAI WELL #	141
LOCATION	KF 84 18 NO 2
OWNERSHIP	UNI
SOURCE	URI
TYPE OF WATER	WELL
DEPTH OF WATER	
USAGE	
AQUIFER	
WELL YIELD	
WELL DEPTH	
PLOTTED	Y
CATER QUALITY	Al=0.052, As=0.001, Ba=4.18, S=0.63, Ud=0.003, Ca=144.0, Ct=0.003, Ct=1,

REMARKS

# C

BAI WELL #	142
LOCATION	KF 84 20 NO 1
OWNERSHIP	UNI
SOURCE	UN
TYPE OF WATER	WELL
DEPTH OF WATER	
USAGE	
AQUIFER	
WELL YIELD	
WELL DEPTH	
PLOTTED	Y
CATER QUALITY	Ale0.749, As=0.002, Ba=0.49, B=0.49, Cd=0.001, Ca=4.93, Or=0.003, Jr=0.001, Olen.0.00, F., Cl. 93, Pb=0.002, Mg=2.5, Mn=0.007, Hg=0.001, Mo=0.017, NI=0.013, K=10.4, Se=0.002, Ag=0.002, Na=992.0, V=0.101, Zn=0.05, HCO3=911.0, CO3=320, Cl=100.0, ON=0.035, F=1.93, N=1.01, PhENOLS=0.170, P=0.15, BC4=10.0, SC3=0.025, SAR=89.97, FCO-IR=37.0, Cli=0,

CONDUCTIVITY=4240.0, PH=8.80, TDS=2775.0

REMARKS

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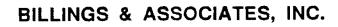
BAI WELL #	143
LOCATION	KF 84 20 NO 2
OWNERSHIP	UN
SOURCE	UII
TYPE OF WATER	WELL
DEPTH OF WATER	
USAGE	
AQUIFER	
WELL YIELD	
WELL DEPTH	
PLOTTED	Y
CATER QUALITY	<ul> <li>A =2 013, As=0 001, Ba=0 5, B=0 63, Cd=0.001, Ca=1.05, 3 311 C + 111, Cu=0.113, Fx, 1115, Cb=1.017, Hg=0.2</li> <li>Mn=0.001, Hg=0.001, Mc=0.001, Ni=0.01, K=16.8, Ua=0.001, Ag=0.001, Na=1577.0, V=0.5, Zn=0.065, HCO3=0, CO3=180, Cl=1280.0, CN=0.012, F=1.64, N=1.36, PHENOLS=0.028, P=1.32, S104=10.0, SC3=0.025, SAR=366.68, TOC-iP=12.0, OH=1214.0, CONDUCTIVITY=10000, PH=12.06, TDS=7515</li> </ul>

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BAI WELL #	144
LOCATION	29.15.04.2422
OWNERSHIP	WESTERN COAL
SOURCE	STONE
TYPE OF WATER	WELL
DEPTH OF WATER	
USAGE	
AQUIFER	KF0
WELL YIELD	
WELL DEPTH	300 FT
PLOTTED	Y
CATER QUALITY	

REMARKS DRILLED 1975



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BAI WELL #	145
LOCATION	29.15.06.1133
OWNERSHIP	R.V.NICHOLS
SOURCE	STONE
TYPE OF WATER	
DEPTH OF WATER	13.4
USAGE	
AGUIFER	LEC:
WELL YIELD	
WELL DEPTH	33
PLOTTED	Y
CATER QUALITY	

REMARKS DRIVEN WELL



## C

BAI WELL #	146
LOCATION	<b>29</b> .1 <b>5</b> .10.3112
OWNERSHIP	?
SOURCE	STONE
TYPE OF WATER	WELL
DEPTH OF WATER	3.1
USAGE	
ACUIFER	Cal
WELL YIELD	
WELL DEPTH	9 M
PLOTTED	Y
CATER QUALITY	

REMARKS SAN JUAN WINDMILL;Q31-8.88X0.57



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BAI WELL #	147
LOCATION	29.15.10.414
OWNERSHIP	WESLEYAN NAVAJO MISSION
SOURCE	STONE
TYPE OF WATER	
DEPTH OF WATER	9
USAGE	
AQUIFER	Qal
WELL YIELD	
WELL DEPTH	19 FT
PLOTTED	Y
CATER QUALITY	SPECIFIC CONDUCTIVITY=1210, PH=7.3. CaCO3=460, CA=140, MG=25_NA=110, HC03=390, SO4=310, 1 = 58, F= 3, Sl02=20, TDS=842, NO3=.30, PO4=.30

REMARKS

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#### BHP- UTAH INTERNATIONAL WELL/SPRING DATA BASE

BAI WELL #	148
LOCATION	29.15.10.424
OWNERSHIP	FRUITLAND TRADING COMPANY
SOURCE	STONE
TYPE OF WATER	
DEPTH OF WATER	5
USAGE	
AQUIFER	Qal
WELL YIELD	
WELL DEPTH	30 FT
PLOTTED	Y
CATER QUALITY	SPECIFIC CONDUCTIVITY=825, PH=7.5, CACO3=318, CA=84, MG=18, NA=60, HC03=286, CO3=0, SO4=174, CL=21, F=.9, SI02=16, TDS=528, NO3=.10

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REMARKS DRIVEN WELL

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BAI WELL #	149
LOCATION	29.15.36.1433
OWNERSHIP	PNM GT-2
SOURCE	STONE
TYPE OF WATER	
DEPTH OF WATER	
USAGE	
AQUIFER	Kf
WELL YIELD	
WELL DEPTH	
PLOTTED	Y
CATER QUALITY	

REMARKS PUMP TEST ONLY



# C

BAI WELL #	150
LOCATION	29.16.02.4
OWNERSHIP	R.A. FRENCH
SOURCE	STONE
TYPE OF WATER	
DEPTH OF VATER	
USAGE	
AQUIFER	Qal
WELL YIELD	
WELL DEPTH	37 FT
PLOTTED	Y
CATER QUALITY	SPECIFIC CONDUCTIVITY=6460, PH=7.3, CAC03=2300, CA=460, MG=280, NA=1000, HCO3=710, CO3=0, SO4=3600, CL=110, F=1.0, SI02=25, TDS=5880, NO3=12

🏲 BAI WELL #	151
LOCATION	29.16.04.244
OWNERSHIP	W. WHEELER
SOURCE	STONE
TYPE OF WATER	
DEPTH OF WATER	
USAGE	
. AQUIFER	Qal
WELL YIELD	
WELL DEPTH	50 FT
PLOTTED	Y
CTER QUALITY	SPECIFIC CONDUCTIVITY=3580, PH=7.9, CAC03=1580, CA=435, MG=120, NA=96, K=4.0, HC33=331, C03=0, SO4=1300, CL=24, F=.9, SIO2=26, TDS=2140, N03=3.6

REMARKS

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**BILLINGS & ASSOCIATES, INC.** 

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BAI WELL #	152
LOCATION	29.16.04.433
OWNERSHIP	W. A WHEELER
SOURCE	STONE
TYPE OF WATER	SPRING
DEPTH OF WATER	
USAGE	
AQUIFER	Qal
WELL YIELD	
WELL DEPTH	
PLOTTED	Y
CATER QUALITY	SPECIFIC CONDUCTIVITY=2440, PH=7.7, CAC03=1450, CA=455, MG=77, NA=90, K=4.0, HC03=331, C03=0, SO4=1300, CL=24, F=.9, S102=26, TDS=2140, NO3=3.6

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BAI WELL #	153
LOCATION	29.16.04.443A
OWNERSHIP	USGS SJ-1
SOURCE	STONE
TYPE OF WATER	WELL
DEPTH OF WATER	5.0
USAGE	
AQUIFER	Cal
WELL YIELD	
WELL DEPTH	28 FT
PLOTTED	Y
CATER QUALITY	SPECIFIC CONDUCTIVITY=2960, PH=8.0, CACO3=1760, CAC03=1480, CA=515, MG=116, NA=150, K=5.4, HCO3=344, CO3=0, SO4=1700, CL=28, F=.6, SIO2=23, TDS=2710, N03=1.9

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BAI WELL #	154
LOCATION	29.16.09.221
OWNERSHIP	USGS SJ-4
SOURCE	STONE
TYPE OF WATER	WELL
DEPTH OF WATER	1
USAGE	
AQUIFER	Qal
WELL YIELD	
WELL DEPTH	7 FT
PLOTTED	Y
CATER QUALITY	S/C=2960

REMARKS

**BILLINGS & ASSOCIATES, INC.** 

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#### **BHP- UTAH INTERNATIONAL WELL/SPRING DATA BASE**

L

- BAI WELL # 155
- LOCATION 29.16.09.223
- OWNERSHIP USGS SJ-3
- SOURCE STONE
- TYPE OF WATER WELL
- DEPTH OF WATER 3.0
  - USAGE
  - AQUIFER Qal
  - WELL YIELD
  - WELL DEPTH 8 FT
    - PLOTTED Y
  - WATER QUALITY
     SPECIFIC CONDUCTIVITY=3200, PH=.8, CAC03=1780, CAC03=1570, CA=425, MG=175, NA=239, K=7.8, HCO3=261, CO3=0, SO4=1860, CL=50, F=.6, SIO2=20, TDS=2910, NO3=4.5

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#### **BHP- UTAH INTERNATIONAL WELL/SPRING DATA BASE**

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BAI WELL #	156
LOCATION	29.16.09.221
OWNERSHIP	
SOURCE	STONE
TYPE OF WATER	
DEPTH OF WATER	
USAGE	
AQUIFER	ALLUVIUM
WELL YIELD	
WELL DEPTH	
PLOTTED	Y
CATER QUALITY	SPECIFIC CONDUCTIVITY=2960, PH=8.0, CAC03=1760, CACO3=1480, CA=515, MG=116, NA=150, K=5.4, HC03=344, C03=0, SO4=1700, CL=28, F=.6, SIO2=23, TDS=2710, NO3=1.9

REMARKS

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BAI WELL # 157

LOCATION KF84-21 NO 3

OWNERSHIP

SOURCE

TYPE OF WATER

DEPTH OF WATER

USAGE

AQUIFER

WELL YIELD

WELL DEPTH

PLOTTED Y

VATER QUALITY

Al=0.068, As=0.007, Ba=0.66, B0.63, Cd=0.001, Ca=14.6, Cr=0.003, Co=0.027, Cu=0.003, Fe=0.015, Pb=0.007, Mg=14.9, Mn=0.38, Hg=0.001, Mo=0.01, Ni=0.01, K=15, Se=0.001, Ag=0.001, Na=2858.0, V=0.05, Zn=0.05, HCO3=753.0, CO3=114, Ci=3980, CN=0.03, F=1.79, N=3940.0, PHENOLS=0.001, P=0.15, SO4=184.0, SO3=36.8, SAR=127.57, TOC-iR=5, OH=0, CONDUCTIVITY=12600.0, PH=8.08, TDS=8505.0

REMARKS

**BILLINGS & ASSOCIATES, INC.** 

