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

State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Closed-Loop System, Below-Grade Tank, or							
Proposed Alternative Method Permit or Closure Plan Application							
Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method							
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request							
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.							
1. Operator:McElvain Oil & Gas Properties, Inc							
Address:1050 17 th Street , Suite 1800, Denver, CO 80265							
Facility or well name: Big Bucks #1							
API Number:30-639-33123 OCD Permit Number:							
U/L or Qtr/Qtr _L Section16 Township30N Range12W County: San Juan							
Center of Proposed Design: Latitude36.81794 N Longitude -108.10927 W NAD: ☑1927 ☐ 1983							
Surface Owner: ☐ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment							
Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other							
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D							
3. Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other Liner Seams: Welded Factory Other							
4. (3) (32) (21) (21)							

__bbl Type of fluid: ___Oil & Water__

Secondary containment with leak detection 🔲 Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off

OIL CONS. DIV. DIST. 3

Tank Construction material: Steel

Below-grade tank: Subsection I of 19.15.17.11 NMAC

☐ Visible sidewalls and liner ☒ Visible sidewalls only ☐ Other

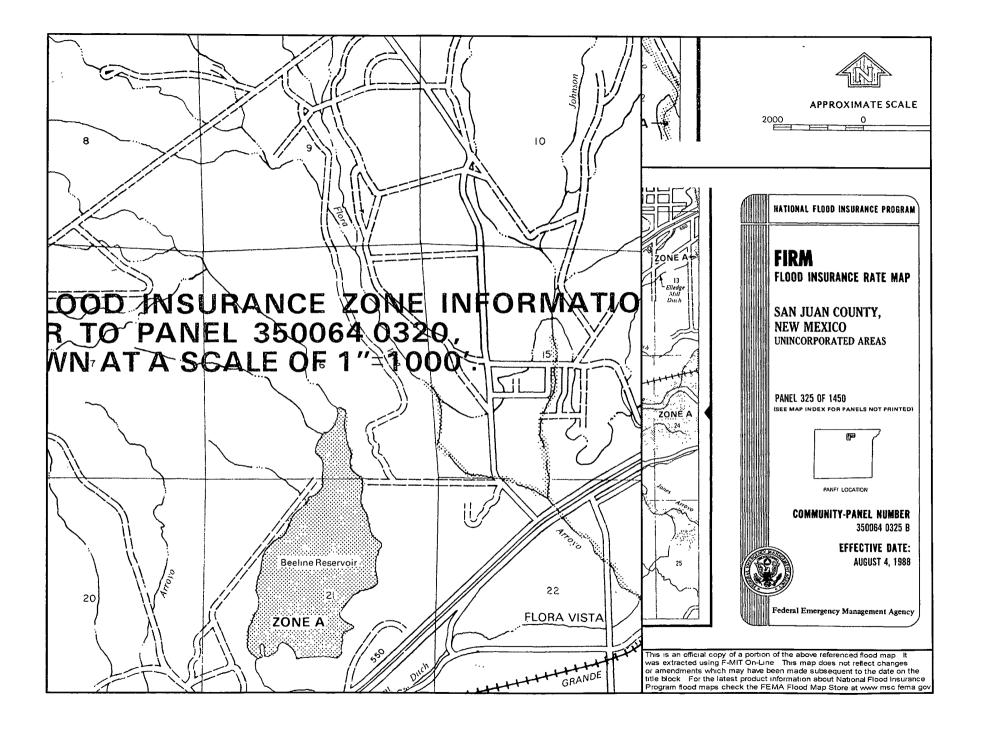
Volume: __95_

· · · ·								
6. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)								
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, schools institution or church)	ol, hospital,							
institution or church) Tour foot height, four strands of barbed wire evenly spaced between one and four feet								
☑ Alternate. Please specify6'Chain Link								
7.								
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)								
☐ Screen ☐ Netting ☒ OtherExpanded Metal								
Monthly inspections (If netting or screening is not physically feasible)								
8. Signs: Subsection C of 19.15.17.11 NMAC								
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers								
☑ Signed in compliance with 19.15.3.103 NMAC								
Administrative Approvals and Exceptions:								
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank:								
Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bure	au office for							
consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.								
10.								
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of ac	ecantabla sourca							
naterial are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the ap	propriate district							
office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to c								
bove-grade tanks associated with a closed-loop system.								
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ⊠ No							
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa ake (measured from the ordinary high-water mark).	☐ Yes ☑ No							
- Topographic map; Visual inspection (certification) of the proposed site								
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☐ No							
Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	⊠ NA							
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes No							
Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	⊠ NA							
Vithin 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock	☐ Yes ☒ No							
vatering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site								
Vithin incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	☐ Yes 🏻 No							
dopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality								
Vithin 500 feet of a wetland.								
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes 🛛 No							
Vithin the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☒ No							
 ithin an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☑ No							
/ithin a 100-year floodplain FEMA map	☐ Yes ☑ No							

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC							
Previously Approved Design (attach copy of design) API Number: or Permit Number:							
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC							
Previously Approved Design (attach copy of design) API Number:							
Previously Approved Operating and Maintenance Plan API Number:(Applies only to closed-loop system that use							
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)							
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Erosion Control Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC							
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.							
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)							
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC							

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Instructions: Please indentify the facility or facilities for the disposal of liquids, a	Steel Tanks or Haul-off Bins Only: (19.15.17.13.I Irilling fluids and drill cuttings. Use attachment if n	NMAC) nore than two						
facilities are required.	Disposal Facility Permit Number:							
·	Disposal Facility Permit Number:							
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations? Yes (If yes, please provide the information below) No								
Required for impacted areas which will not be used for future service and operation Soil Backfill and Cover Design Specifications based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	requirements of Subsection H of 19.15.17.13 NMA I of 19.15.17.13 NMAC	C						
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the provided below. Requests regarding changes to certain siting criteria may require considered an exception which must be submitted to the Santa Fe Environmental demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC f	e administrative approval from the appropriate distr Bureau office for consideration of approval. Justi	rict office or may be						
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data	obtained from nearby wells	☐ Yes ☐ No ☐ NA						
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data	obtained from nearby wells	☐ Yes ☐ No ☐ NA						
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data	obtained from nearby wells	Yes No						
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signals (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	ificant watercourse or lakebed, sinkhole, or playa	☐ Yes ☐ No						
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image								
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site								
Within incorporated municipal boundaries or within a defined municipal fresh wate adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approve		Yes No						
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visua	l inspection (certification) of the proposed site	Yes No						
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining	and Mineral Division	☐ Yes ☐ No						
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology Society; Topographic map	& Mineral Resources; USGS; NM Geological	Yes No						
Within a 100-year floodplain FEMA map		☐ Yes ☐ No						
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Protocols and Procedures - based upon the appropriate requirements of 19.15 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection Plan - based upon the appropriate requirements of Subsection Re-vegetation Plan - based upon the appropriate requirements of Subsection Plan - based upon the appropriate requirements of Subsection Plan - based upon the appropriate requirements of Subsection Re-vegetation Plan - based upon the appropriate requirements of Subsection Plan - based upon the appropriate requirements of S	irements of 19.15.17.10 NMAC Subsection F of 19.15.17.13 NMAC propriate requirements of 19.15.17.11 NMAC d) - based upon the appropriate requirements of 19.1.17.13 NMAC irements of Subsection F of 19.15.17.13 NMAC Subsection F of 19.15.17.13 NMAC ill cuttings or in case on-site closure standards cannot of 19.15.17.13 NMAC of 19.15.17.13 NMAC	15.17.11 NMAC						

Operator Application Certification: I hereby certify that the information submitted with this application is	s true, accurate and complete to the	e best of my knowledge and belief.
Name (Print): Deborah K Powell	Title: _Engineering Te	ech Supervisor
Signature: Lehh C Poull	Date:	9-3-08
e-mail address:DebbyP@McElvain.com	Telephone:	303-893-0933
OCD Approval: Permit Application (including closure plan) OCD Representative Signature: Title:	Cløsure Plan (only) OCD C	Approval Date: 4/24/2010
21. <u>Closure Report (required within 60 days of closure completion)</u> : Instructions: Operators are required to obtain an approved closure The closure report is required to be submitted to the division within section of the form until an approved closure plan has been obtained	plan prior to implementing any cl 60 days of the completion of the c	osure activities and submitting the closure report. losure activities. Please do not complete this een completed.
22. Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain.	☐ Alternative Closure Method	☐ Waste Removal (Closed-loop systems only)
Closure Report Regarding Waste Removal Closure For Closed-local Instructions: Please indentify the facility or facilities for where the two facilities were utilized. Disposal Facility Name: Disposal Facility Name: Were the closed-loop system operations and associated activities perform Yes (If yes, please demonstrate compliance to the items below) Required for impacted areas which will not be used for future service	Disposal Facility Per Disposal Facility Per Disposal Facility Per No	mit Number:
☐ Site Reclamation (Photo Documentation) ☐ Soil Backfilling and Cover Installation ☐ Re-vegetation Application Rates and Seeding Technique		
24. Closure Report Attachment Checklist: Instructions: Each of the j mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-si Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude	te closure)	
Operator Closure Certification: I hereby certify that the information and attachments submitted with the	nis closure report is true, accurate a	and complete to the best of my knowledge and
belief. I also certify that the closure complies with all applicable closure	ure requirements and conditions spo	ecified in the approved closure plan.
Name (Print):	Title:	
Signature:	Date:	
e-mail address:	Telephone:	



New Mexico Office of the State Engineer POD Reports and Downloads

	Township:	30N Range: 12W	Sections: 8,	9,10,15,	,16,17,20,21,22
NA	D27 X:	Y:	Zone:	<u>;</u>	Search Radius:
County: SJ	\$	Basin:	, <u>Ž</u>	Num	nber: Suffix:
Owner Name:	(First)	_ (Last)	. ×		Non-Domestic © Domestic © All
POD/A	urface Data	Report Avg	Depth to Wate	r Report	Water Column Report
		(Clear Form	ŰŴĄŢĔŔŚŅ	lenu 🤭	(Hejp)

WATER COLUMN REPORT 08/14/2008

(quarters are 1=NW 2=NE 3=SW 4=SE)

				smallest		Depth	Depth	Water	(in feet)
POD Number	Twe	Rna Se	cddd ragear r	Zone		_	Water	Column	(2 2000)
SJ 03767 POD1	30N	12W 10	2 4 2	265		265	82	183	
SJ 02128	30N	12W 10	3 4	200	101 1121020	140	60	80	
SJ 00945	30N	12W 10	3 4			130	70	60	
SJ 00421	30N	12W 10	4 4			126	43	83	
SJ 00367	30N	12W 15	3 3			95	50	45	
SJ 02168	30N	12W 15				78	50	28	
SJ 01178	30N	12W 15	1 4			110	80	30	
SJ 03401	30N	12W 15	1 4 3			180	56	124	
SJ 01881	30N	12W 15	2			157	100	57	
SJ 00817	30N	12W 15	2 3 4			96	53	43	
SJ 03108	30N	12W 15	2 4 1			110	29	81	
SJ 03106	30N	12W 15	2 4 2			165	105	60	
SJ_00883	30N 30N	12W 15	3			75	35	40	
SJ 02120	30N	12W 15	3			77	55	22	
SJ 00709	30N 30N	12W 15	3			52	20	32	
	30N		3			165	20 60	105	
SJ 00145	30N	12W 15 12W 15	3			50	60	103	
SJ 01162	30N	12W 15	3 1			120	60	60	
SJ 00416						55	35	20	
SJ 02127	30N	12W 15	3 3 3 3 2			75	30	45	
SJ 03238	30N	12W 15	3 3 2 3 3 2			50	21	29	
SJ 02760	30N	12W 15						30	
SJ 01438	30N	12W 15	3 4			96	66	60	
SJ_00730	30N 30N	12W 15	3 4 3 4			90 90	30 30	60	
SJ 00710	30N 30N	12W 15	3 4			50	22	28	
SJ 01793	30N 30N	12W 15 12W 15	3 4			58	30	28	
SJ 00816 SJ 00714	30N	12W 15	3 4			92	40	52	
SJ 00717	30N	12W 15	3 4			100	60	40	
SJ 00717 SJ 01215	30N	12W 15	3 4			60	30	30	
SJ 01213	30N	12W 15	3 4			50	20	30	
SJ_00829	30N	12W 15	3 4			68	30	38	
SJ 00684	30N	12W 15	3 4			73	30	43	
SJ 00928	30N	12W 15	3 4			68	32	36	
SJ 00731	30N	12W 15	3 4			90	30	60	
SJ 00731	30N	12W 15	3 4			58	35	23	
SJ 00912 SJ 00828	30N	12W 15				59	28	31	
			3 4			43	20	23	
SJ 00828 (1)	30N	12W 15	3 4			52	30	22	
SJ 00481	30N	12W 15	3 4 2			52 55		47	
SJ 00516	30N	12W 15	3 4 3				8		
SJ 00927	30N	12W 15	4 1 2			204	75 25	129	
SJ 00594	30и	12W 15	4 2			145	95 25	50	
SJ 00810	30N	12W 15	4 3 3			96	35	61	
SJ 03159	30и	12W 15	4 4 2			60	0.5	20	
SJ 02514	30и	12W 15	4 4 4			57	25	32	
SJ 01279	30и	12W 16	4 4			200	100	100	
SJ 00950	30N	12W 21	4 4			70	35	35	
SJ 02163	30N	12W 21	4 4 4	W 4244	100 2174000	31	15	16	

THE WILLIAM CONTINUE	01 411										
SJ 01152	30N	12W	22	1	1	2			66	19	47
SJ 01877	30N	12W	22	1	1	2			94	66	28
SJ 01297	30N	12W	22	1	2	2			67	30	37
SJ 00439	30N	12W	22	1	3				97	50	47
SJ 03087	30N	12W	22	1	3	4			40	21	19
SJ 00462	30N	12W	22	1	4				61	12	49
SJ 03056	30N	12W	22	1	4	1			88	30	58
SJ 00312	30N	12W	22	2					94	35	59
SJ 00695	30N	12W	22	2					70	29	41
SJ 00360	30N	12W	22	2	2				35	3	32
SJ 00746	30N	12W	22	2	2	2			42	6	36
SJ 01273	30N	12W	22	2	3				100	38	62
SJ 00800	30N	12W	22	2	3				79	27	52
SJ 01684	30N	12W	22	3	1				80	45	35
SJ 03424	30N	12W	22	3	2				64	24	40
SJ 03661	30N	12W	22	3	2	1			65	19	46
SJ 03289	30N	12W	22	3	2	1			70	19	51
SJ 03607	30N	12W	22	3	2	1	264817	2109564	57	33	24
SJ.03060	30N	12W	22	3	2	2			57	21	36
SJ 03101	30N	12W	22	3	2	2			74	12	62
SJ 03059	30N	12W	22	3	2	2			61	24	37
SJ 03616	30N	12W	22	3	2	2			67	20	47
SJ 03662	30N	12W	22	3	2	2			63	20	43
SJ 03500	30N	12W	22	3	3	1			56	24	32
ಽ೨ 03157	30N	12W	22	3	3	2			46	18	28
SJ 01393	30N	12W	22	3	4				39	12	27
SJ 01165	30N	12W	22	3	4				42	14	28
SJ 01312	30N	12W	22	3	4				38	20	18
SJ 00569	30N	12W	22	3	4				44	10	34
SJ 03317	30N	12W	22	3	4	2			50		
SJ 02008	30N	12W	22	4	1				42	7	35
SJ 02014	30N	12W	22	4	1				45	10	35
SJ 01614	30N	12W	22	4	1				45	7	38
SJ 01301	30N	12W	22	4	2				50	10	40
SJ 00460	30N	12W	22	4	2				40	3	37
SJ 00224	30N	12W	22	4	2	1			48	22	26
SJ 02305	30N	12W	22	4	2	1			41	20	21
SJ 02133	30N	12W	22	4	3				40	14	26
SJ 03233	30N	12W	22	4	3	3			42	8	34
SJ 03473	30N	12W	22	4	3	3			40		
SJ 01464	30N	12W	22	4	3	3			40	15	25
SJ 00903	30N	12W	22	4	3	3			45	10	35
SJ 01340	30N	12W	22	4	3	4			40	9	31
SJ 01386	30N	12W	22	4	3	4			40	12	28
SJ 01980	301	12W	22	4	4				20	5	15
SJ 01860	30N	12W	22	4	4				20	3	17
SJ 03038	30N	12W	22	4	4	3			30	5	25
SJ 02876	30N	12W	22	4	4	3			33	23	10
SJ 03397	30N	12W	22	4	4	3			42	5	37
SJ 03041	30N	12W	22	4	4	4			43	8	35
SJ 02387	30N	12W	22	4	4	4			16	5	11

Record Count: 98

District : PO Box 1980, Hobbs, NM 88241-1980

District II PO Drawer DD, Antesia, NM 88211-0719

District III 1000 Pio Brazos Pd., Artec NM 87410

Costruct IV PO Box 2098, Santa Fe, NM 87504-2098

State of New Mexico Energy, Minerals & Natural Resources Department

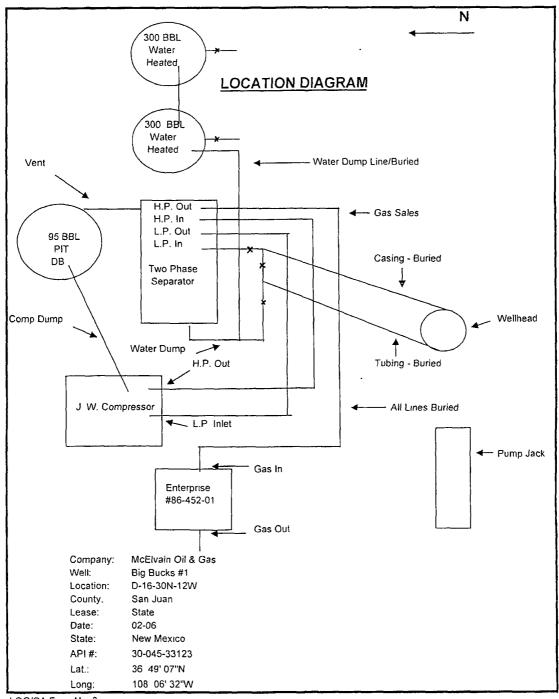
OIL CONSERVATION DIVISION P0 Box 2088 Santa Fe, NM 87504-2088

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

THOSE FOR THAT

	WELL LOCATE	ON AND A	CREAGL DED	ICATION PL	-A :
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D 16 30N	12W	700	NORTH	670	WEST SAN JUAN
UL & 15t no Section Township	Bottom Hole L	Feet from the	f Different North/South line	Freet from the	GAST/West line Curity
12 Deniuntan Acres		13 Joint or Infill	14 Consolidation Lode	15 Order No	
320.0 Acres	s - (M/S)			<u> </u>	
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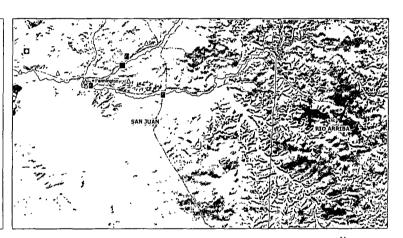
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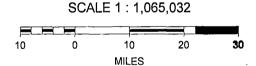


LOG/CA Form No 3

San Juan Mines, Mills And Quarries Web Map

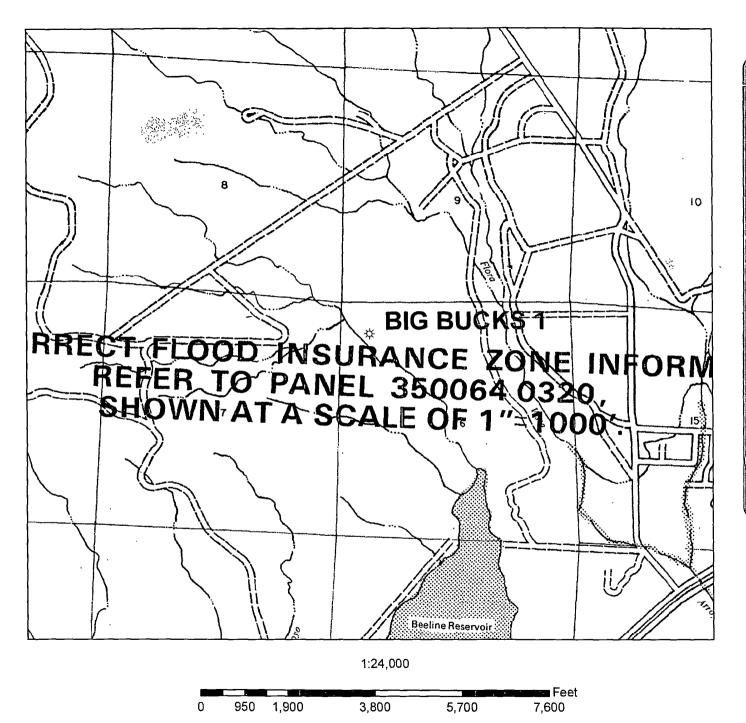
Mines, Mills & Quarries Commodity Groups							
Δ	Aggregate & Stone Mines						
*	Coal Mines						
*	Industrial Minerals Mines						
•	Industrial Minerals Mills						
	Metal Mines and Mill Concentrate						
	Potash Mines & Refineries						
2	Smelters & Refinery Ops.						
*	Hranium Mines						



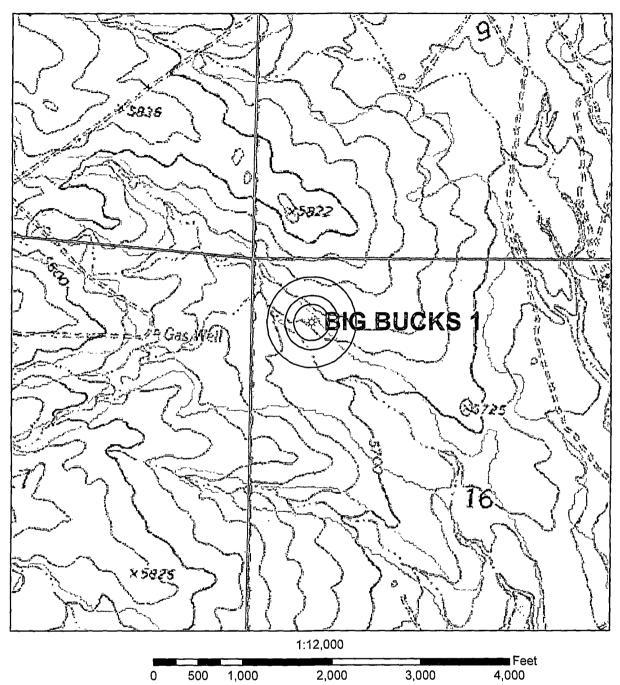




Tuesday July 29, 2008 8:15 AM



HATIONAL FLOOD INSURANCE PROGRAM FIRM FLOOD INSURANCE RATE MAP SAN JUAN COUNTY, **NEW MEXICO** UNINCORPORATED AREAS PANEL 325 OF 1450 (SEE MAP INDEX FOR PANELS NUT PRINTED) PANEL LOCATION COMMUNITY-PANEL NUMBER 350064 0325 B EFFECTIVE DATE: **AUGUST 4, 1988** Federal Emergency Management Agency



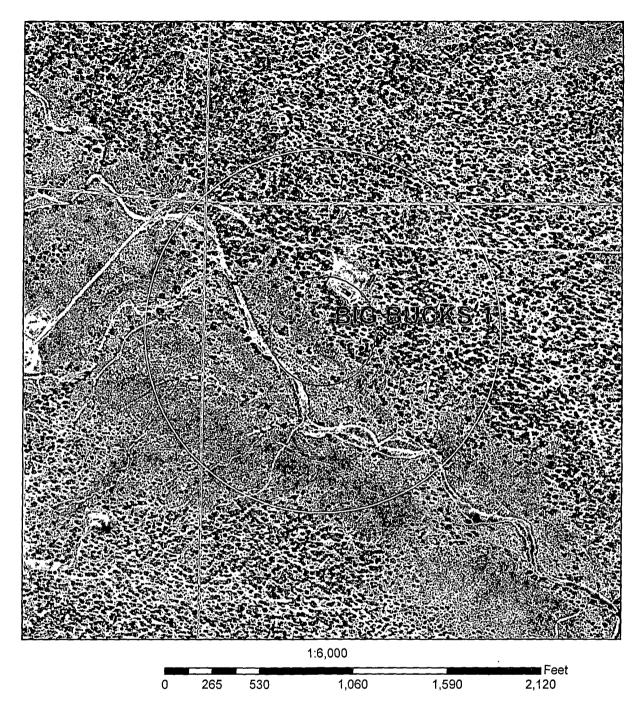
Legend

McElvain Well & 200' Radius

McElvain Well & 300' Radius

McElvain Well & 500' Radius

Source: USGS 1:24,000 Scale Topographic Map Series San Juan Basin New Mexico Township 30N 12W Section 16



Legend

McElvain Well & 300' Radius

McElvain Well & 1000' Radius

Aerial Source: NM Resource Geographic Information System Program made available by the University of New Mexico and the State of New Mexico 2005-2006 vintage Digital Orthophoto Quarter-Quadrangles were derived from the New Mexico Statewide Orthophotography Project. Source imagery flown at 35,000' above average ground.

San Juan Basin New Mexico Township 30N 12W Section 16

Siting Criteria Compliance Demonstrations

The Big Bucks #1 well is not located in an unstable area. The location is not over a mine and is not on the side of a hill. The location of the excavated pit material is not located within 300' of any continuously flowing watercourse or 200' from any other water course.

McElvain Oil & Gas Properties, Inc. San Juan Basin Below Grade Tank Design and Construction

In accordance with Rule 19.15.17 NMAC the following describes the as-built construction of the Below Grade Tank on the McElvain Oil & Gas Properties, Inc (MOG) Big Bucks #1 well located in the NWNW of Sec 16, T30N, 12W.

As-built Installation:

- 1. The existing tank pit consists of an approximate 15 foot by 5 foot metal shored hole into which a 12 foot by 5 foot double bottom, single wall 95 bbl tank with leak detection is installed.
- 2. The tank walls are open for visual inspection to identify the occurrence of leaks.
- 3. There is an expanded metal covering on the top of the below grade tank.
- 4. The tank pit is surrounded by a 30ft X 30ft X 2ft berm that is contained within a 50 ft X 140 ft berm that encloses the tank battery to prevent overflow or surface water run-on.
- 5. A general location sign is displayed on site.
- 6. The pit tank is fenced with 6 foot chain link.

McElvain Oil & Gas Properties, Inc. San Juan Basin Below Grade Tank Maintenance and Operating Plan

In accordance with Rule 19.15.17 NMAC the following describes the below grade tank operation and maintenance plan for the McElvain Oil & Gas Properties, Inc (MOG) on the Big Bucks #1 well located in the NWNW of Sec 16, T30N, 12W.

General Plan:

- 1. MOG shall operate and maintain the below grade tank to contain liquids and solids and prevent contamination of fresh water to protect the public health and environment.
- 2. MOG shall not allow a below grade tank to overflow or allow surface water run-on to enter the below grade tank.
- 3. MOG shall continuously remove any visible or measurable layer of oil from the fluid surface of a below grade tank in an effort to prevent significant accumulation of oil over time.
- 4. MOG shall inspect the below grade tank monthly and maintain a written record of each inspection for five years.
- 5. MOG shall maintain adequate freeboard to prevent overtopping of the below grade tank.

McElvain Oil & Gas Properties, Inc. San Juan Basin Closure Plan

In accordance with Rule 19.15.17.1 NMAC the following procedure describes the closure plan for the McElvain Oil & Gas Properties, Inc (MOG) below grade tank on the Big Bucks #1 well located in the NWNW of Sec 16, T30N, 12W.

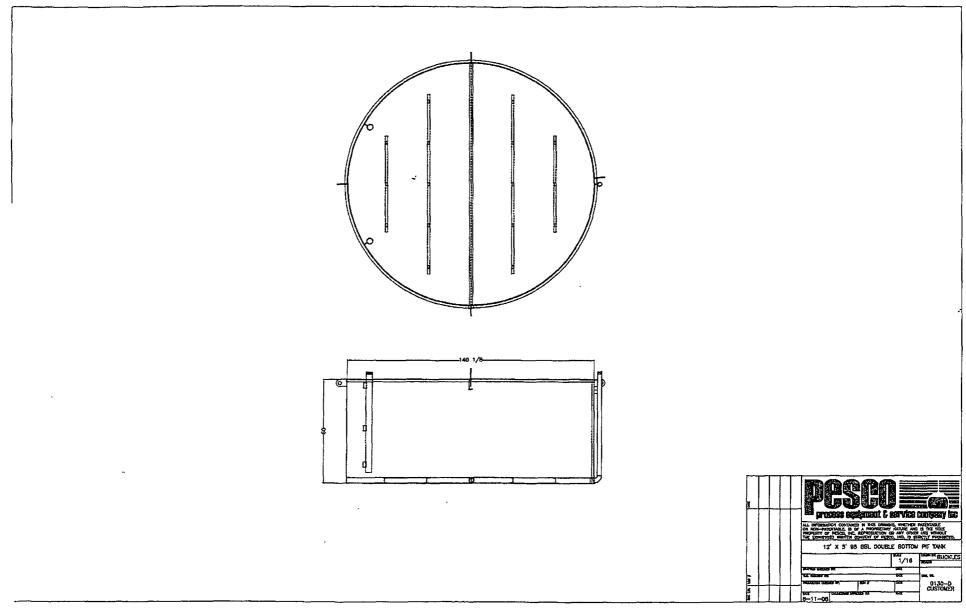
Closure Requirements:

- 1. MOG shall close the below grade tank within the time periods provided in 19.15.17.13 NMAC or by an earlier date that the division requires because of imminent danger to fresh water, public health, or the environment.
- 2. MOG shall close an existing below grade tank that does not meet the requirements of Paragraph (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years after June 16, 2008 if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC.
- 3. MOG shall close a permitted below grade tank within 60 days of cessation of the below ground tank's operation or as required by the transitional provisions of Subsection B of 19.15.17.17 NMAC in accordance with a closure plan that the appropriate division district office approves. The closure report will be filed on C-144.
- 4. All liquids will be removed from the temporary permit prior to closure and the liquids disposed of in a division approved facility.
- 5. MOG shall remove the below grade tank and dispose of it in a division approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves.
- 6. MOG will remove any on-site equipment associated with the below grade tank unless the equipment is required for some other purpose.
- 7. MOG shall test the soils beneath the below grade tank to determine whether a release has occurred. MOG shall collect a five point composite sample and individual grab samples from any area that is wet, discolored, or showing other evidence of a release. The samples will be analyzed for BTEX, TPH, and chlorides to demonstrate that the benzene concentration as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration as determined by EPA method 418.1 or other EPA method that the division approves does not exceed 100 mg/kg; and the chloride concentration as determined by EPA

method 300.1 or other EPA method that the division approves does not exceed 250 mg/kg or the background concentration, whichever is greater. MOG shall notify the division of its results on form C-141.

- 8. If MOG or the division determines that a release has occurred, then MOG shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC as appropriate.
- 9. If contamination is confirmed by field sampling. MOG will follow the Guidelines For Remediation Of Leaks, Spills, and Releases NMOCD August 1993 when remediating identified contaminants.
- 10. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, then MOG shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; re-contour, and re-vegetate the site.
- 11. Notice of closure will be given to the Aztec Division office between 72 hours and one week of closure via email or verbally. The notification of closure will include the following:
 - · Operator's name
 - · Location by Unit Letter, Section Township, and Range.
 - · Well name and API number
- 12. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the blow grade tank. The closure report will be filed on C-144 and incorporate the following:
 - · Details on capping and covering where applicable
 - · Inspection reports
 - · Sampling results
- The site will be re-contoured to match the surrounding area. Natural drainages will be unimpeded and erosion control will be utilized where necessary.
- 14. MOG shall seed the disturbed areas the first growing season with a division approved seed mixture after pit closure. Seeding will be accomplished by drilling on the contour whenever possible or by other division approved methods. Repeat seeding or planting will be continued until successful vegetative growth occurs.
- 15. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the thickness of the topsoil native to the area, whichever is greater.

16. The surface owner shall be notified of MOG's closing of the below grade tank as per the approved closure plan using certified mail with return receipt requested.



Big Bucks #1

McElvain Oil & Gas Properties, Inc.

Hydrogeological Report For

Big Bucks #1

RCVD NOV 26 '08 OIL CONS. DIV.

Surface Formation:

DIST. 3

Nacimiento and Animas Formations

Regional and Local Geology

The Tertiary Nacimiento Formation is a fluvial deposit of Paleocene age (Baltz, 1967). The Nacimiento is present at the surface in a wide swath inside the western margin of the basin from the Colorado-New Mexico state line to the south where the exposure area thins along the southern margin of the basin towards the town of Cuba, NM. From Cuba and north along the eastern margin of the basin, the Nacimiento is present at the surface as a very thin outcrop along the Nacimiento Uplift.

Much of the Nacimiento consists of shale, siltstone, and to a lesser extent limited fine- to medium-grained sandstone similar to the Cretaceous rocks of nearby regions and presumably derived by erosion from these rocks (Baltz, 1967). The Nacimiento is mainly composed of beds of clays and silts deposited in a low energy environment such as still or slowly moving water (Brimhall, 1973) or in lake-settings (Fassett, 1974). The Nacimiento's sandstone units were deposited in an environment of small, localized stream beds. Most of the sandstones extend only a few thousand feet. The Nacimiento is a non-resistant unit and typically erodes to low, rounded hills or forms badlands topography (Craigg, 2001). The mudstones display popcorn weathering, characteristic of swelling clays. The slope-forming sediments are made up of poorly-consolidated sandstone, instead of shale as previously thought, possibly attributing a greater percentage of sand to the formation than previously considered (Stone et al., 1983).

The Nacimiento conformably overlies and intertongues with the Tertiary Ojo Alamo Formation in this area. Where buried, the contact of the Nacimiento with the overlying Tertiary San Jose Formation is an erosional and angular unconformity (Fassett, 1974). The Nacimiento grades laterally into into late Cretaceous-early Tertiary Animas Formation in the northern third of the basin (Fassett, 1974). Therefore at this location, the Nacimiento and Animas Formations occupy the same stratigraphic interval.

The late Cretaceous-early Tertiary Animas Formation contains an abundance of material of volcanic origin. It is conglomeratic and characteristically contains boulders and pebbles of andesite in a tuffaceous matrix. The conglomeratic beds are interbedded with variegated shale and sandstone (Fassett, 1974). Less commonly, conglomerate beds contain pebbles of quartz, quartzite and chert (Fassett and Hinds, 1971). The Animas Formation is exposed at the surface only in a narrow belt at the NE margin of the basin and along the La Plata River valley north of Farmington to the Colorado-New Mexico state line.

Hydraulic Properties

Tertiary and Quaternary hydrologic properties, regional flow patterns and water quality do not vary significantly from unit to unit. Where pumping levels and drilling depths are economically feasible and where water quality is suitable, the San Jose, Nacimiento and Animas Formations are a source of water for public-supply, commercial, private-domestic and livestock use. Water in the San Jose, Nacimiento and Animas Formations occurs under both water table and artesian conditions. Recharge to the aquifers is from infiltration of precipitation and stream flow on outcrops, and from vertical upward leakage of water from underlying strata (Levings et al., 1990). Rates of such leakage, however, are very low except in areas of intense fracturing (Stone et al., 1983).

Nacimiento and Animas sandstone "aquifers" are neither generally continuous over large distances nor do they all crop out. They grade laterally into clays and silts (Brimhall, 1973). Transmissivity for the San Jose, Nacimiento and Animas Formations is minimal. A low yield (10 gallons per minute or less) can be expected for Nacimiento and Animas Formations. However, these formations may have relatively high transmissivities in areas of small extent (Stone et al., 1983). Reported or measured discharge from 79 water wells completed in the the San Jose, Nacimiento and/or Animas Formations ranges from 1-61 gallon per minute, median 6 gpm. The specific capacity of 12 of these 79 tests ranges from 0.03 to 2.30 gpm per foot of drawdown (Levings et al., 1990). The aquifers of Tertiary rocks yield water that is

characteristically high in ions of sodium and sulfate. The removal of iron may be required (Stone et al., 1983).

Hydrology & Conclusion

A records search of the NM Office of the State Engineer iWaters database was conducted in the 9-sections centered on the Big Bucks #1 well location, 30N 12W section 16. 94 wells with depth to water measurements were identified. The Big Bucks #1 is located on Hood Mesa approx. 2.3 miles north of the Animas River. Wells nearest the Animas River are found in sections 21 and 22, in the flood plain of the Animas River. Water in those wells is reached at the elevation of the Animas River. Minimum depth to water in those sections is 3'. Farther from the Animas River, and higher in elevation are sections 10, 15 and 16. Average depth to water in section 15 is 43', minimum 8' and maximum 105'. In section 16, a water well drilled in the SE/4 at elevation 5630' measured a depth to water at 100'. The Big Bucks #1 is 120' higher in elevation and further from the Animas River than the water well in the same section. It can be concluded that depth to water at the Big Bucks #1 well site is over 100'.

References

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Levings, G.W., Craigg, S.D., Dam, W.L., Kernodle, J.M., and Thorn, C.R., 1990, Hydrogeology of the San Jose, Nacimiento, and Animas Formations in the San Juan Structural Basin, New Mexico, Colorado, Arizona, and Utah, USGS Hydrologic Investigations Atlas HA-720-A, 2 sheets.

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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, 70p.

BGT Closure Sampling Required by NMOCD Components Method

Components	Method	Limit
Benzene	EPA SW-846 8021B or 8260B	0.2 mg/Kg
BTEX	EPA SW-846 8021B or 8260B	50 mg/Kg
TPH	EPA SW-846 418.1	100 mg/Kg
Chlorides	EPA 300.1	250 mg/Kg