

10/25/2017 DATE IN	SUSPENSE	PRG ENGINEER	LOGGED IN	SUD TYPE	PMAM172983050 APP NO.
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or ☐ Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner

[C] ☒ Application is One Which Requires Published Legal Notice

[D] ☒ Notification and/or Concurrent Approval by BLM or SLO
 U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Ben Stone		Agent for Intrepid Potash-NM, LLC	10/10/17
Print or Type Name	Signature	Title	Date
		ben@sosconsulting.us	
		e-mail Address	



October 10, 2017

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Attn: Mr. David Catanach, Director

Re: Application of Intrepid Potash-New Mexico, LLC to permit for salt water disposal in the proposed Intrepid SWD Well No.1, to be located in Section 12, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico.

Dear Mr. Catanach,

Please find enclosed form C-108 Application for Authority to Inject, supporting the above-referenced request to permit for disposal, the Intrepid SWD No.1.

Intrepid Potash-New Mexico seeks to optimize efficiency, both economically and operationally, of its operations and to offer additional disposal options for operators in southeast New Mexico. Approval of this application is consistent with that goal as well as the NMOCD's mission of preventing waste and protection of correlative rights.

Published legal notice ran on or about October 10, 2017 in the edition of the Artesia Daily Press and all offset operators and other interested parties have been notified individually. The legal notice affidavit will be forwarded when received. This application also includes a wellbore schematic, area of review maps, leaseholder plats and other required information for a complete Form C-108. The well is located on private land and minerals. As an offset minerals owner, a copy of this application has been submitted to the Bureau of Land Management, Carlsbad Field Office, Oil and Gas Division.

I respectfully request that the approval of this salt water disposal well proceed swiftly and if you or your staff requires additional information or has any questions, please do not hesitate to call or email me.

Best regards,

Ben Stone, Partner
SOS Consulting, LLC
Agent for Intrepid Potash-New Mexico, LLC

Cc: Application attachment and file

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: **Salt Water Disposal** and the application **QUALIFIES** for administrative approval.
- II. OPERATOR: **Intrepid Potash-New Mexico, LLC (Ogrid pending)**
ADDRESS: **707 17th St., Ste.4200, Denver, CO 80202**

CONTACT PARTY: **Agent: SOS Consulting, LLC – Ben Stone (903) 488-9850**
- III. WELL DATA: **All well data and applicable wellbore diagrams are ATTACHED.**
- IV. **This is not an expansion of an existing project.**
- V. **A map is attached** that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- *VI. A tabulation is attached of data on all wells of public record within the area of review which penetrate the proposed injection zone. **There are NO (0) Wells in the subject AOR which Penetrate the proposed Devonian interval.** The data includes a description of each well's type, construction, date drilled, location, depth, and a schematic of any plugged well illustrating all plugging detail. **NO P&A Wells penetrate.**
- VII. **The following data is ATTACHED** on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. **Appropriate geologic data on the injection zone is ATTACHED** including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. **Stimulation program – a conventional acid job may be performed to clean and open the formation.**
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted). **Well Logs will be filed with OCD.**
- *XI. **There are 7 water wells (2 domestic, others monitor wells or abandoned) within one mile of the proposed salt water disposal well. 2 have been sampled and analyses will be forwarded upon receipt.**
- XII. **An affirmative statement is ATTACHED that available geologic and engineering data has been examined and no evidence was found** of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. **"Proof of Notice" section on the next page of this form has been completed and ATTACHED. There are 10 offset lessees and/or operators within ½ mile and BLM minerals - all have been noticed. Well location is Private.**
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: **Ben Stone** TITLE: **SOS Consulting, LLC agent for Intrepid Potash-NM, LLC**

SIGNATURE: 

DATE: **10/09/2017**

E-MAIL ADDRESS: **ben@sosconsulting.us**

- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

FORM C-108 – APPLICATION FOR AUTHORIZATION TO INJECT (cont.)

III. WELL DATA – *The following information and data is included (See ATTACHED Wellbore Schematic):*

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No., Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE *pursuant to the following criteria is ATTACHED.*

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include: ***Affidavit will be FORWARDED upon receipt.***

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

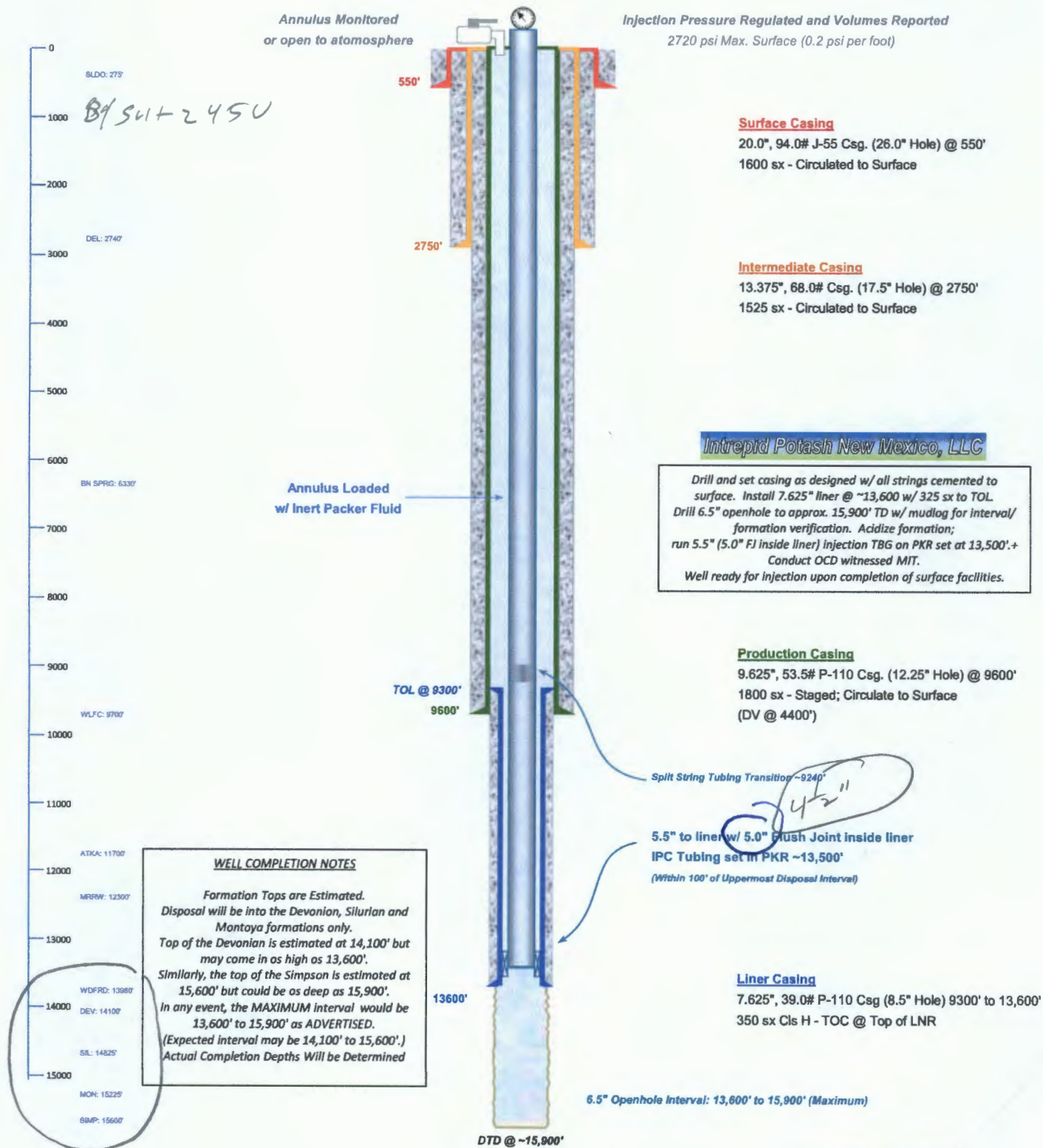
NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.



WELL SCHEMATIC - PROPOSED Intrepid SWD Well No.1

API 30-015-xxxxx
1030' FSL & 910' FEL, SEC. 12-T23S-R28E
EDDY COUNTY, NEW MEXICO

Proposed: SWD; Devonian-Silurian-Montoya
Spud Date: 11/15/2017
SWD Config Dt: 1/01/2018

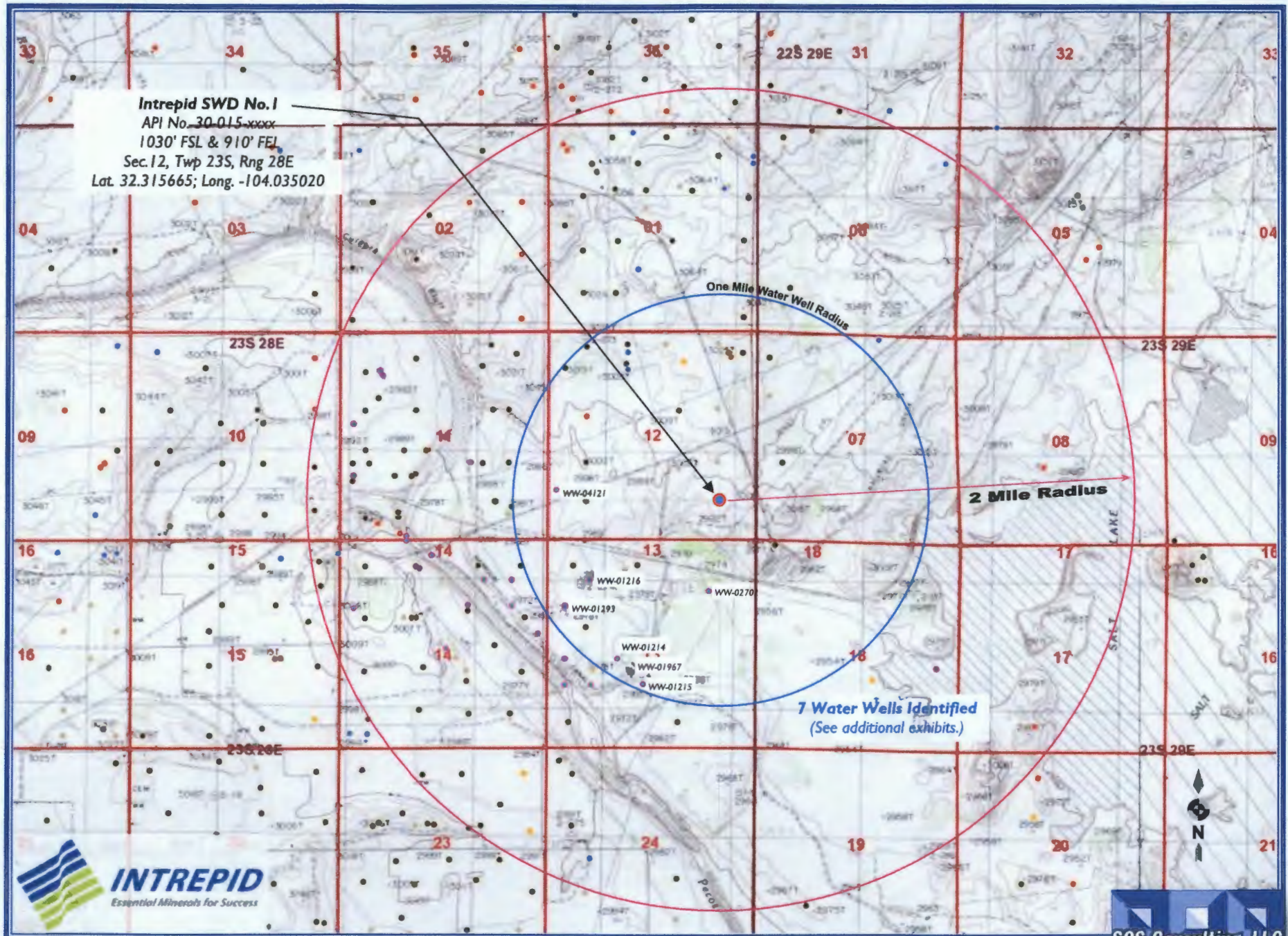


Drawn by: Ben Stone, Rvs'd 10/09/2017



Intrepid SWD No.1 - Area of Review / 2 Miles

(Attachment to NMOCD Form C-108 - Item V)



Intrepid SWD Well No.1 - Area of Review / Overview Map

(Attachment to NMOCD Form C-108, Application for Authority to Inject.)



4.2 miles NE of Loving, NM



Eddy County, New Mexico



C-108 - Item VI

Area of Review Well Data

**THERE ARE NO WELLS WHICH PENETRATE THE
PROPOSED DEVONIAN FORMATION IN THE
ONE-HALF MILE AREA of REVIEW**

C-108 ITEM X

LOGS and AVAILABLE TEST DATA

**A Standard Suite of Logs will be run after
drilling the well and submitted to the Division.**

(See Cross Section in Item VIII - Geologic Information)

C-108 ITEM VII – PROPOSED OPERATION

Intrepid SWD No.1

Commercial SWD Facility

Upon approval of all permits for SWD, operations would begin within 30 days. Completion of the well operations will take approximately 6-8 weeks. Facility construction including installation of the tank battery, berms, plumbing and other and associated equipment would be occurring during the same interval but at a different location from the well. In any event, it is not expected for the construction phase of the project to last more than 60 days, depending on availability of contractors and equipment.

Configure for Salt Water Disposal

Prior to commencing any work, an NOI sundry(ies) will be submitted to configure the well for SWD and will detail the completion workover including all work otherwise described above, any change to the procedure noted herein and to perform mechanical integrity pressure test per OCD and BLM test procedures. (Notify NMOCD 24 hours prior.) The casing/tubing annulus will be monitored for communication with injection fluid or loss of casing integrity.

Operational Summary

The SWD facility will not be fenced so that trucks may access for load disposal 24/7.

The well and injection equipment will be a closed system and equipped with pressure limiting devices and volume meters. The annulus, loaded with an inert, anti-corrosion packer fluid, will be monitored for pressure.

The tanks will be equipped with telemetry devices and visual alarms to alert the operator and customers of full tanks or an overflow situation.

Anticipated daily maximum volume is 25,000 bpd and an average of 15,000 bpd at a maximum surface injection pressure of 2720 psi (.2 psi/ft gradient – maximum pressure will be adjusted if the top of interval is modified after well logs are run).

Potential releases will be contained and cleaned up immediately. The operator shall repair or otherwise correct the situation within 48 hours before resuming operations. OCD will be notified within 24 hours of any release greater than 5 bbls. If required, remediation will start as soon as practicable. Operator shall comply with 19.15.29 NMAC and 19.15.30 NMAC; as necessary and appropriate and OCD form C-141 will be submitted promptly.

C-108 ITEM VII – PRODUCED WATER ANALYSES

Item VII.4 – Water Analysis of Source Zone Water

Delaware
Bone Spring
Wolfcamp
Morrow

Item VII.5 – Water Analysis of Disposal Zone Water

Devonian

Water Analyses follow this page.

C-108 Item VII.5 - Produced Water Data

Intrepid SWD Well No.1

SOURCE ZONE

DELAWARE

API No	3002508367	Lab ID	
Well Name	BELL LAKE UNIT	Sample ID	4347
	007	Sample No	
Location	ULSTR 01 24 S 33 E	Lat / Long	32.25143 -103.51924
	660 N 660 E	County	Lea
Operator (when sampled)			
	Field SWD	Unit	1
Sample Date		Analysis Date	
	Sample Source UNKNOWN	Depth (if known)	
	Water Typ		
ph		alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	87686	resistivity_ohm_cm_temp_	
tds_mgL_180C		conductivity	
chloride_mgL	53920	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	391
iron_mgL		sulfate_mgL	749
barium_mgL		hydroxide_mgL	
magnesium_mgL		h2s_mgL	
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	
Remarks			

(Produced water data courtesy of NMT Octane NM WAIDS database.)



C-108 Item VII.5 - Produced Water Data

Intrepid SWD Well No.1

SOURCE ZONE

BONE SPRING

API No	3002502429	Lab ID	
Well Name	LEA UNIT 005	Sample ID	4916
		Sample No	
Location	ULSTR 12 20 S 34 E 1980 S 1980 E	Lat / Long	32.58504 -103.51106
		County	Lea
Operator (when sampled)			
	Field LEA	Unit J	
Sample Date		Analysis Date	
	Sample Source DST	Depth (if known)	
	Water Typ		
ph		alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	202606	resistivity_ohm_cm_temp_	
tds_mgL_180C		conductivity	
chloride_mgL	118100	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	5196
iron_mgL		sulfate_mgL	992
barium_mgL		hydroxide_mgL	
magnesium_mgL		h2s_mgL	
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	
Remarks			

(Produced water data courtesy of NMT Octane NM WAIDS database.)

C-108 Item VII.5 - Produced Water Data

Intrepid SWD Well No.1

SOURCE ZONE

WOLFCAMP

API No	3001520138	Lab ID	
Well Name	MAHUN STATE 001	Sample ID	5688
		Sample No	
Location	ULSTR 16 22 S 22 E	Lat / Long	32.39340 -104.70979
	1800 N 1980 W	County	Eddy
Operator (when sampled)			
	Field ROCKY ARROYO	Unit	F
Sample Date	5/17/1968	Analysis Date	
	Sample Source DST	Depth (if known)	
	Water Typ		
ph	8.6	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	35495	resistivity_ohm_cm_temp_	
tds_mgL_180C		conductivity	
chloride_mgL	19000	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	830
iron_mgL		sulfate_mgL	2500
barium_mgL		hydroxide_mgL	
magnesium_mgL		h2s_mgL	
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	
Remarks			

(Produced water data courtesy of NMT Octane NM WAIDS database.)



C-108 Item VII.5 - Produced Water Data

Intrepid SWD Well No.1

SOURCE ZONE

MORROW

API No	3002520756	Lab ID	
Well Name	CUSTER MOUNTAIN UNIT 001	Sample ID	2434
		Sample No	
Location	ULSTR 09 24 S 35 E	Lat / Long	32.22999 -103.37431
	1980 S 1980 W	County	Lea
Operator (when sampled)			
	Field CINTA ROJA	Unit	K
Sample Date		Analysis Date	
	Sample Source DST	Depth (if known)	
	Water Type		
ph		alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	282741	resistivity_ohm_cm_temp_	
tds_mgL_180C		conductivity	
chloride_mgL	176800	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	161
iron_mgL		sulfate_mgL	650
barium_mgL		hydroxide_mgL	
magnesium_mgL		h2s_mgL	
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	
Remarks			

(Produced water data courtesy of NMT Octane NM WAIDS database.)



C-108 Item VII.5 - Produced Water Data

Intrepid SWD Well No.1

DISPOSAL ZONE

DEVONIAN

API No.	3002508483	Lab ID	
Well Name	BELL LAKE UNIT 006	Sample ID	5733
		Sample No	
Location	ULSTR 06 23 S 34 E 660 S 1980 E	Lat / Long	32.32821 -103.50663
		County	Lea
Operator (when sampled)			
	Field BELL LAKE NORTH	Unit	O
Sample Date		Analysis Date	
	Sample Source HEATER/TREATER	Depth (if known)	
	Water Type		
ph	7	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	71078	resistivity_ohm_cm_temp_	
tds_mgL_180C		conductivity	
chloride_mgL	42200	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	500
iron_mgL		sulfate_mgL	1000
barium_mgL		hydroxide_mgL	
magnesium_mgL		h2s_mgL	
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	
Remarks			

(Produced water data courtesy of NMT Octane NM WAIDS database.)



C-108 Item VII.5 - Produced Water Data

Trove Energy SWD Well No.1

DISPOSAL ZONE

DEVONIAN

		Lab ID	
API No.	3002521082	Sample ID	5720
Well Name	ANTELOPE RIDGE UNIT 003	Sample No	
Location	ULSTR 34 23 S 34 E 1980 S 1650 W	Lat / Long	32.25922 -103.46068
		County	Lea
Operator (when sampled)			
	Field ANTELOPE RIDGE	Unit	K
Sample Date	11/14/1967	Analysis Date	
	Sample Source UNKNOWN	Depth (if known)	
	Water Type		
ph	6.9	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	80187	resistivity_ohm_cm_temp_	
tds_mgL_180C		conductivity	
chloride_mgL	47900	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	476
iron_mgL		sulfate_mgL	900
barium_mgL		hydroxide_mgL	
magnesium_mgL		h2s_mgL	
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	

Remarks

(Produced water data courtesy of NMT Octane NM WAIDS database.)



C-108 – Item VIII

Geologic Information

The Devonian, Silurian and upper Ordovician all consist of carbonates including light colored dolomite and chert intervals interspersed with some tight limestone intervals. Several thick sections of porous dolomite capable of taking water are present within the subject formations in the area. It is reasonable to assume that a Silurian section is present between the Devonian and Ordovician (Montoya) although the top depth of Silurian and Ordovician intervals is uncertain at this time. If the base of Devonian and top of Silurian and/or Ordovician rocks come in as expected the well will only be drilled deep enough for adequate logging rathole.

At a proposed depth of 15,900' BGL (Below Ground Level) the well will TD approximately 1,500 to 2,000 feet below the estimated top of the Devonian. Mud logging through the interval will ensure the target interval remains in Devonian, Silurian and Ordovician. Once Devonian is determined, the casing shoe depth will be set at an approximate maximum upper depth of 13,600' BGL. Injection will occur through the resulting openhole interval.

COMPLETION NOTES: Lacking depth control in the immediate vicinity, formation tops are estimated. Disposal will be into the Devonian, Silurian and Montoya formations only. Top of the Devonian is estimated at 14,100' but may come in as high as 13,600'. Similarly, the top of the Simpson is estimated at 15,600' but could be as deep as 15,900'. In any event, the MAXIMUM interval would be 13,600' to 15,900' as ADVERTISED. (Expected interval may be 14,100' to 15,600'.) Actual completion depths will be determined by mud and openhole logs.

The Devonian is overlain by the Woodford Shale and Ordovician (Montoya) rock is underlain by the Middle and Lower Ordovician; Simpson and Ellenburger.

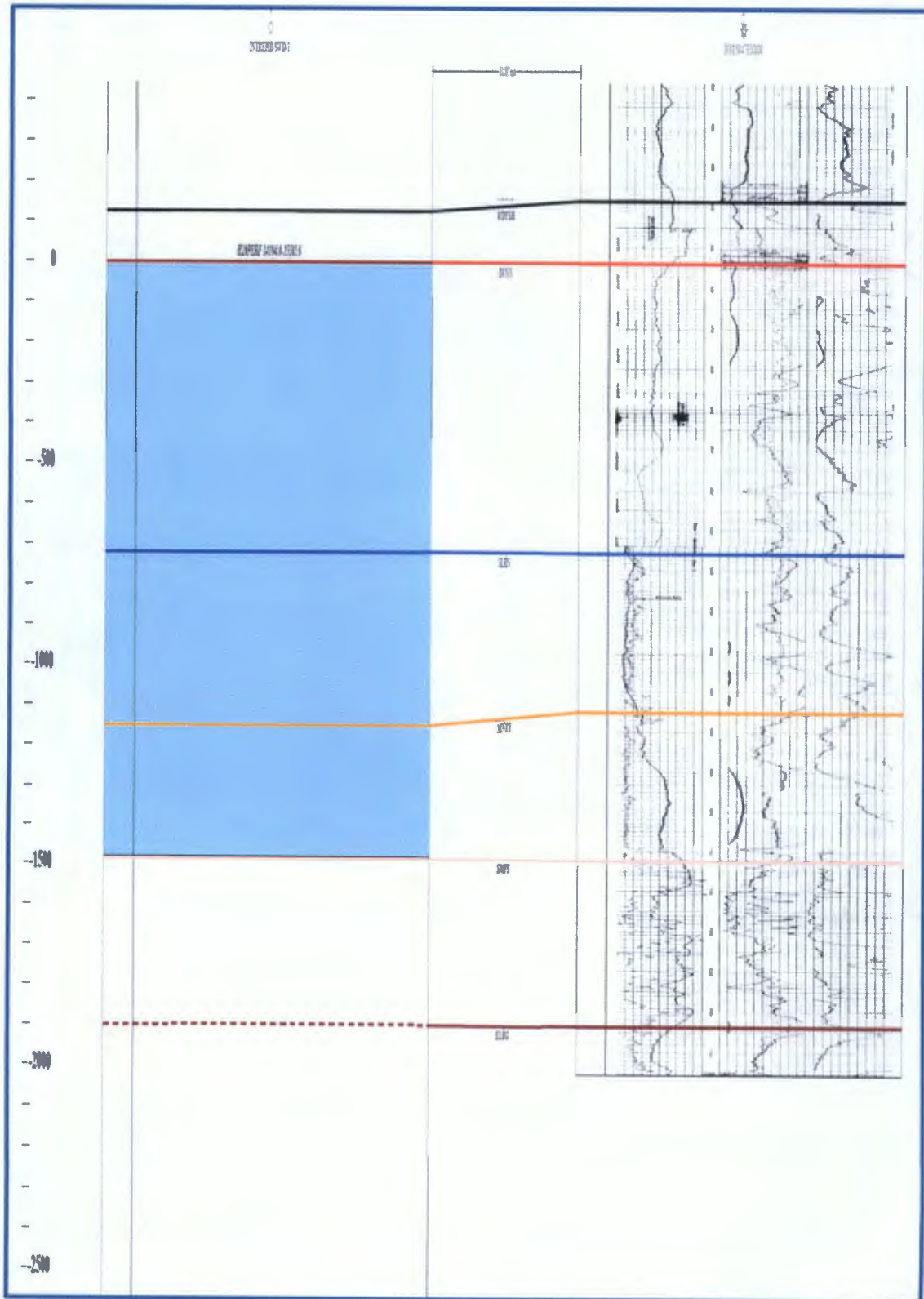
Fresh water in the area is generally available from valley and basin fill of the Carlsbad-Pecos segment of the lower Pecos Valley complex of Quaternary alluvial sand and gravel deposits. State Engineer's records show water wells in the area with a depth to groundwater of 15 to 200 feet with an average depth to groundwater of 43 feet.

There are 7 water wells located within one mile of the proposed SWD (some are abandoned and some are monitor wells); 2 have been sampled and analyses will be forwarded upon receipt.

C-108 – Item VIII

Geologic Information

PROPOSED INJECTION INTERVAL; HUNG ON DEVONIAN



C-108 ITEM XI – WATER WELLS IN AOR



Red Boxes – wells within one mile New Mexico Office of the State Engineer Active & Inactive Points of Diversion (with Ownership Information)

(state & per annum)		(POD has been replaced and no longer serves this file. C=the file is closed)		(quarters are 1=000 2=000 3=000 4=000)		(quarters are smallest to largest) (PODIES UTd in meters)	
WR File Nbr	Sub basin Use Diversion Owner	County POD Number	Code Grant	Source	Q1 Q2 Q3 Q4	X	Y
C 00318	CUB IRR 0 JOSE AREVALO	ED C 00318		Shallow	3 1 3 11	235 28E	567973 3575809
C 00464 ETAL	WR 7250 075 CITY OF CARLSBAD	ED C 00464			1 4 2 14	235 28E	569108 3574884
		ED C 00464 S-3			4 4 2 14	235 28E	569388 3574784
		ED C 00464 S-5			4 4 2 14	235 28E	569388 3574784
C 00512	C IRR 322.8 ANTONIO C. & GLORIA G. OMSUREZ	ED C 00512		Shallow	4 1 1 11	235 28E	569188 3576775
		ED C 00512 S		Shallow	4 1 1 11	235 28E	569187 3576809
C 00606	C DOM 0 JOSE AREVALO	ED C 00606			3 3 1 11	235 28E	567970 3576401
C 00616	IRR 0 LEE & WELMA YONGT	ED C 00616		Shallow	1 3 1 14	235 28E	567982 3574978
C 00791	MN 0 MISSISSIPPI CHEMICAL COMPANY	ED C 00791			1 3 1 12	235 28E	569803 3574889
C 01212	EXP 0 U.S. BORAX & CHEM CORP.	ED C 01212			1 3 1 13	235 28E	569803 3574889
C 01213	EXP 0 U.S. BORAX & CHEM CORP.	ED C 01213			4 1 3 13	235 28E	569806 3574383
C 01214	EXP 0 U.S. BORAX & CHEM CORP.	ED C 01214		Shallow	1 2 3 13	235 28E	569010 3574887
C 01215	EXP 0 U.S. BORAX & CHEM CORP.	ED C 01215		Shallow	4 2 3 13	235 28E	569016 3574387
C 01216	EXP 0 U.S. BORAX & CHEM CORP.	ED C 01216		Shallow	4 1 1 13	235 28E	569801 3576200
C 01217	COM 150 INTREPID MINING NM LLC US BANK NATIONAL ASSOCIATION	ED C 01217		Shallow	1 1 3 13	235 28E	569806 3574883
C 01218	EXP 0 U.S. BORAX & CHEM CORP.	ED C 01218			3 4 3 13	235 28E	569012 3573861
C 01219	EXP 0 U.S. BORAX & CHEM CORP.	ED C 01219			1 1 3 13	235 28E	569806 3574883
C 01220	EXP 0 U.S. BORAX & CHEM CORP.	ED C 01220			3 2 2 14	235 28E	569188 3576189
C 01287	EXP 0 U.S. BORAX & CHEM CORP.	ED C 01287			4 1 2 14	235 28E	569800 3575184
C 01298	EXP 0 U.S. BORAX & CHEM CORP.	ED C 01298			3 1 3 13	235 28E	569806 3574383
C 01283	EXP 0 U.S. BORAX & CHEM CORP.	ED C 01283			1 3 1 13	235 28E	569803 3574889
C 01446	C PUB 0 NM STATE HWY DEPT	ED C 01446			14	235 28E	569802 3574870
C 01450	C PUB 0 GARDNER BRIDGE CO	ED C 01450			2 2 1 14	235 28E	569806 3575389
C 01887	C DOM 3 PERRY L. COLEMAN	ED C 01887		Shallow	2 3 13	235 28E	569111 3574488
C 02188	C PRO 0 RB OPERATING COMPANY	ED C 02188		Shallow	1 1 3 14	235 28E	567985 3574572
C 02702	C 0 BMC KALJUM	ED C 02702		Shallow	2 13	235 28E	569718 3576188
C 02708	C 0 BMC KALJUM	ED C 02708			2 13	235 28E	569718 3576188
C 02828	C PUB 0 NEW MEXICO STATE HIGHWAY & T D	ED C 02828			2 1 14	235 28E	568486 3575200
C 03480	C EXP 0 HUNGRY HORSE, LLC	ED C 03480 POD1		Shallow	3 1 2 14	235 28E	568867 3575004
C 03489	C POL 0 STA OIL PRODUCERS, LLC	ED C 03489 POD1		Shallow	3 4 3 11	235 28E	568373 3575538
		ED C 03489 POD2			3 4 3 11	235 28E	568382 3575508
		ED C 03489 POD3			3 4 3 11	235 28E	568381 3575538
C 03536	C PRO 0 GLENYS WATER WELL SERVICE	ED C 03536		Shallow	4 1 1 11	235 28E	568188 3576775
C 04121	C SAN 1 CENTURION PIPELINE LTD PARTNERSHIP	ED C 04121 POD1	NON		1 3 3 12	235 28E	569536 3579888
SP 00302	IND 4638.5 INTREPID MINING NM LLC US BANK NATIONAL ASSOCIATION	ED C 01817		Shallow	1 1 3 13	235 28E	569806 3574883
		ED SP 00302			1 4 1 13	235 28E	569806 3576107
SP 01842	IND 10888 INTREPID MINING NM LLC US BANK NATIONAL ASSOCIATION	ED SP 01842			1 4 1 11	235 28E	569806 3576107
SP 01955	IRR 150.8 U.S. BANK NATIONAL ASSO INTREPID MINING NM LLC	ED SP 01955			11	235 28E	569800 3576284
SP 02845	IND 18100 INTREPID MINING NM LLC US BANK NATIONAL ASSOCIATION	ED SP 02845			1 4 1 11	235 28E	569806 3576107

Record Count: 39

PLSS Search:

Section(s): 11, 12, 13, 14 Township: 23S Range: 28E

Sorted by: File Number

WR File Nbr	Sub basin Use Diversion Owner	County POD Number	Code Grant	Source	Q1 Q2 Q3 Q4	X	Y
C 02708	C 0 BMC KALJUM	ED C 02708		Shallow	4 18	235 28E	562302 3574281

Record Count: 1

PLSS Search:

Section(s): 7, 18 Township: 23S Range: 29E

Sorted by: File Number

Note: 8 PODs identified above resulted in 7 well spots based on OSE coordinates in GIS mapping.
(See aerial map following this page.)

2 wells sampled – Analyses will be forwarded upon receipt.

7 Water Wells (8 PODs) are Shown to be Within One Mile of the Proposed SWD

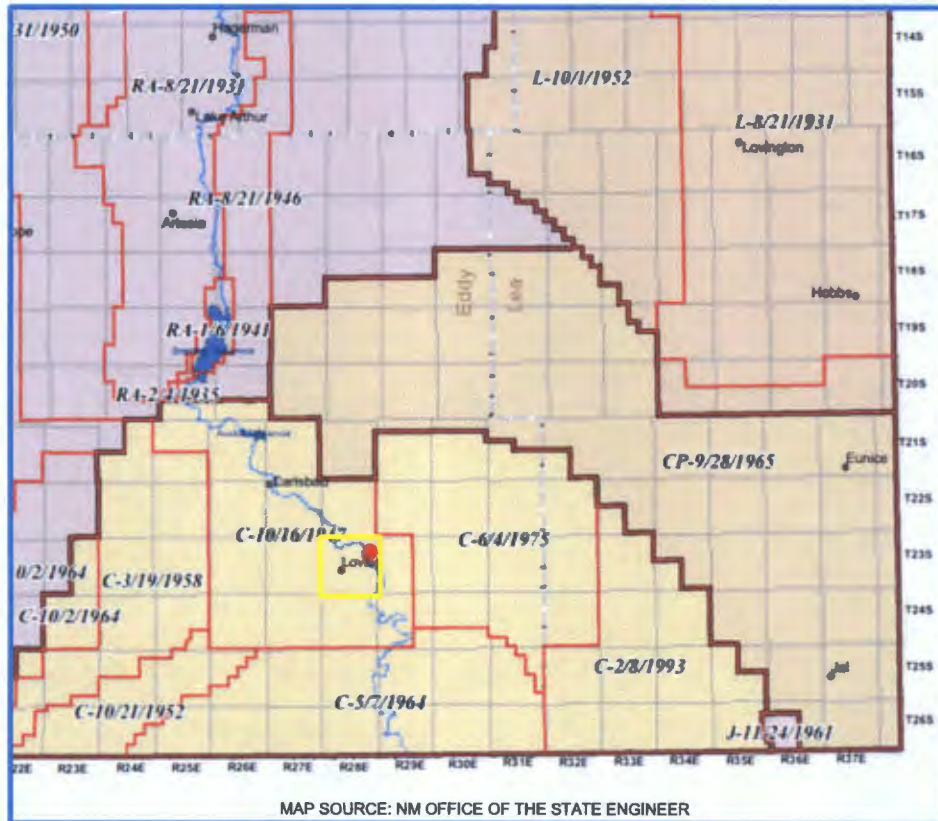
(See 2-Mile AOR Map for Radius Presentation)

2 Wells Sampled... Proposed WW-04121 and WW-01967.



C-108 - Item XI

Groundwater Basins - Water Column / Depth to Groundwater



The subject well is located within the Carlsbad Basin.

Fresh water in the area is generally available from valley and basin fill of the Carlsbad-Pecos segment of the lower Pecos Valley complex of Quaternary alluvial sand and gravel deposits. State Engineer's records show water wells in 23S-28E with an average depth to water at 43 feet.

There are seven water wells (domestic, abandoned, monitor) located within one mile of the proposed SWD. Two have been sampled and analyses will be forwarded upon receipt.

C-108 ITEM XI – WATER WELLS IN AOR

Depth to Ground Water



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the
POD suffix indicates the
POD has been replaced
& no longer serves a
water right file.)

(R=POD has
been replaced.
O=orphaned.
C=the file is
closed)

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

	POD													
	Sub-		Q	Q	Q							Depth	Depth	Water
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	Well	Water	Column
C 00315	C	ED		3	1	3	11	23S	28E	587973	3575995*	100	45	55
C 00512	C	ED		4	1	1	11	23S	28E	588188	3576775	175	15	160
C 00512 CLW198323	O	ED		4	1	1	11	23S	28E	588167	3576806*	100		
C 00512 EXPL	O	ED				1	11	23S	28E	588272	3576703*	200	16	184
C 00512 S	C	ED		4	1	1	11	23S	28E	588167	3576806*	100		
C 00608	C	ED		3	3	1	11	23S	28E	587970	3576401*	200		
C 00616		ED		1	3	1	14	23S	28E	587982	3574978*	120	30	90
C 01214		ED		1	2	3	13	23S	28E	590010	3574597*	70	20	50
C 01215		ED		4	2	3	13	23S	28E	590210	3574397*	104	15	89
C 01216		ED		4	1	1	13	23S	28E	589801	3575205*	60	45	15
C 01217		ED		1	1	3	13	23S	28E	589606	3574593*	87	50	37
C 01967	C	ED			2	3	13	23S	28E	590111	3574498*	264	200	64
C 02189	C	ED		1	1	3	14	23S	28E	587985	3574572*	48	29	19
C 02702	C	ED			2		13	23S	28E	590715	3575108*	38	20	18
C 03460 POD1	C	ED		3	1	2	14	23S	28E	588857	3575004	100	38	62
C 03469 POD1	C	ED		3	4	3	11	23S	28E	588374	3575538	68	38	30
C 03469 POD2	C	ED		3	4	3	11	23S	28E	588382	3575506	48		
C 03469 POD3	C	ED		3	4	3	11	23S	28E	588381	3575538	47		

Average Depth to Water: 43 feet

Minimum Depth: 15 feet

Maximum Depth: 200 feet

Record Count: 18

PLSS Search:

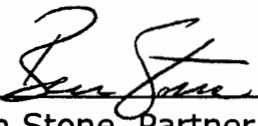
Section(s): 11, 12, 13, 14 Township: 23S Range: 28E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

C-108 ITEM XII – GEOLOGIC AFFIRMATION

We have examined available geologic and engineering data and have found no evidence of open faults or other hydrologic connection between the disposal interval and any underground sources of drinking water.


Ben Stone, Partner
SOS Consulting, LLC

Project: Intrepid Potash-New Mexico, LLC
Intrepid SWD No.1
Reviewed 10/06/2017

C-108 ITEM XIII – PROOF OF NOTIFICATION

IDENTIFICATION AND NOTIFICATION OF INTERESTED PARTIES

Exhibits for Section

Leasehold Plat

List of Interested Parties

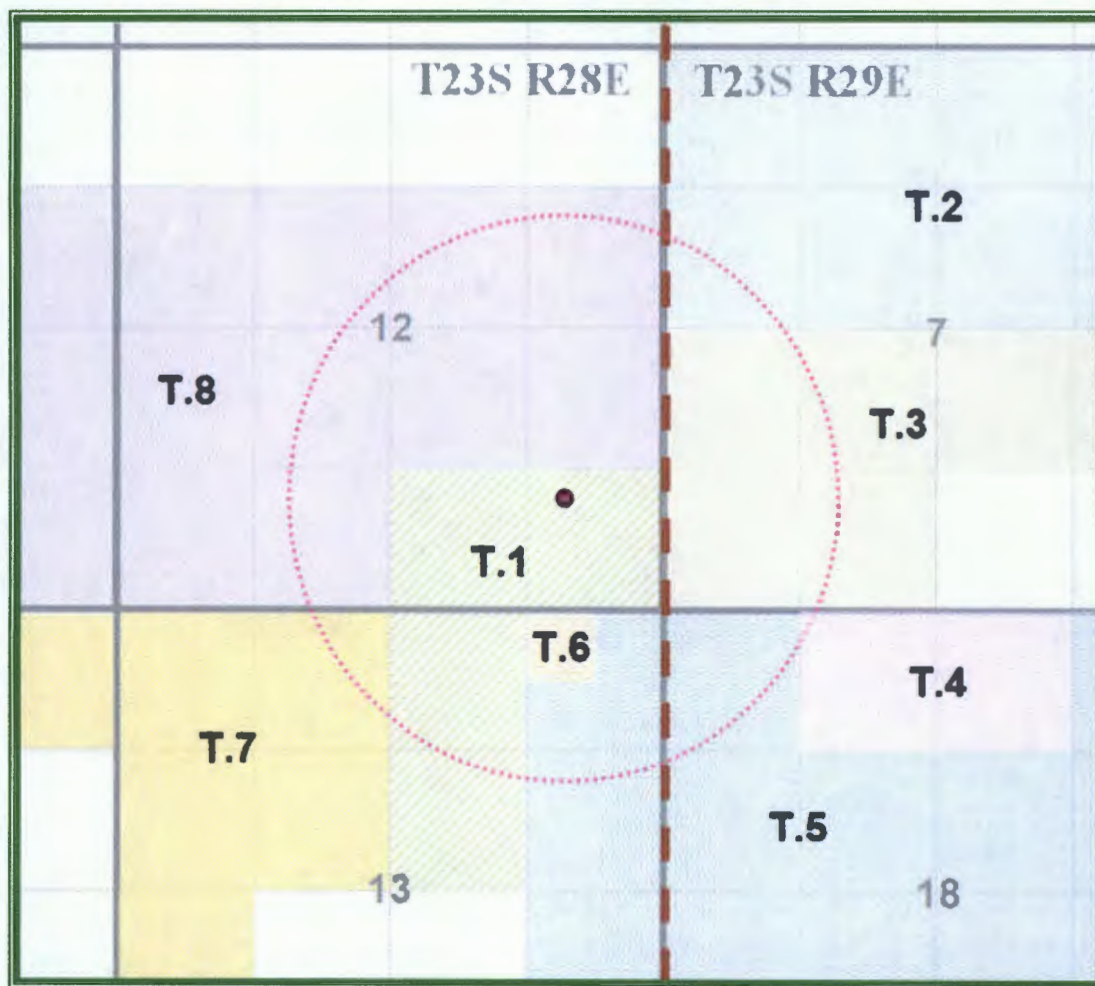
Notification Letter to Interested Parties

Proof of Certified Mailing

Published Legal Notice

Intrepid SWD No.1 - Leasehold Plat

(Attachment to NMOCD Form C-108, Application for Authority to Inject.)



LEGEND

T.1 – Intrepid Potash NM, LLC*
BLM-NMNM-032636; Occidental Permian

T.2 – Mosaic Company*
BLM NMNM-103879; EOG Resources

T.3 – Mosaic Company*
BLM NMNM-090527; Devon Energy Prod.

T.4 – Mosaic Company*
BLM NMNM-110831; Echo Production

T.5 – Mosaic Company

T.6 – New Mexico Salt & Minerals

T.7 – BLM NMNM-0542015; Chevron USA

T.8 – BLM-NMNM-032636; Occidental Permian

* Denotes Split Estate/ BLM Minerals

**C-108 ITEM XIII – PROOF OF NOTIFICATION
INTERESTED PARTIES LIST**

SURFACE OWNER

INTREPID POTASH – NEW MEXICO, LLC
707 17TH St., Ste.4200
Denver, CO 80202

MINERALS LESSEES (All Notified via USPS Certified Mail)

Split Estate/ BLM Lease NMNM-032636; (T.1 on plat.)

Surface Owner

INTREPID POTASH – NEW MEXICO, LLC (Applicant)
707 17TH St., Ste.4200
Denver, CO 80202

Lessee

- 1 OCCIDENTAL PERMIAN, LTD.
P.O. Box 4294
Houston, TX 77210
Certified: 7015 3010 0001 3789 9842

Split Estate/ BLM Lease NMNM-103879; (T.2 on plat.)

Surface Owner

- 2 MOSAIC COMPANY
1361 Potash Mines Rd.
Carlsbad, NM 88220
Certified: 7015 3010 0001 3789 9835

Lessee

- 3 EOG RESOURCES, INC.
5509 Champions Drive
Midland, TX 79706
Certified: 7015 3010 0001 3789 9828

Split Estate/ BLM Lease NMNM-090527; (T.3 on plat.)

Surface Owner

MOSAIC COMPANY

Lessee

- 4 DEVON ENERGY PRODUCTION CO., LP
333 W. Sheridan Avenue
OKC, OK 73102-5010
Certified: 7015 3010 0001 3789 9798

Operator

- 5 TAPROCK OPERATING, LLC
1301 McKinney, Ste. 1300
Houston, TX 77010
Certified: 7015 3010 0001 3789 9811

Split Estate/ BLM Lease NMNM-110831; (T.4 on plat.)

Surface Owner

MOSAIC COMPANY

**C-108 ITEM XIII – PROOF OF NOTIFICATION
INTERESTED PARTIES LIST (Cont.)**

Split Estate/ BLM Lease NMNM-110831; (T.4 on plat, Cont.)

Lessee

- 6 ECHO PROCUCTION COMPANY
P.O. Box 1210
Graham, TX 76450
Certified: 7015 3010 0001 3789 9774

Fee Lease: Mosaic Company (T.5 on plat.)

Operator

- 7 OXY USA, INC.
6001 Deauville Blvd.
Midland, TX 79706
Certified: 7015 3010 0001 3789 9767

Fee Lease: New Mexico Salt & Minerals (T.6 on plat.)

Surface and Minerals

- 8 NEW MEXICO SALT & MINERALS
511 Potash Mines Rd
Loving, NM 88256
Certified: 7015 3010 0001 3789 9750

BLM Lease NMNM-0542015; (T.7 on plat.)

Lessee

- 9 CHEVRON USA, INC.
6310 Deauville Blvd.
Midland, TX 79706
Certified: 7015 3010 0001 3789 9804

Operator

- 10 ROCKCLIFF OPERATING NEW MEXICO, LLC
1301 McKinney, Ste. 1300
Houston, TX 77010
Certified: 7015 3010 0001 3789 9743

BLM Lease NMNM-032636; (T.8 on plat.)

Operator

- 11 RAY WESTALL OPERATING, INC.
P.O. Box 4
Loco Hills, NM 88255
Certified: 7015 3010 0001 3789 9736

MINERALS OWNER (Notified via USPS Certified Mail)

- 12 U.S. DEPARTMENT OF INTERIOR
Bureau of Land Management
Oil & Gas Division
620 E. Greene St.
Carlsbad, NM 88220
Certified: 7015 3010 0001 3789 9781

C-108 ITEM XIII – PROOF OF NOTIFICATION INTERESTED PARTIES LIST (Cont.)

REGULATORY

NEW MEXICO OIL CONSERVATION DIVISION (FedEx'ed original and copy)
1220 S. St. Francis Dr.
Santa Fe, NM 87505

NEW MEXICO OIL CONSERVATION DIVISION (FedEx'ed copy)
811 S. First Street
Artesia, NM 88210



October 9, 2017

NOTIFICATION TO INTERESTED PARTIES
via U.S. Certified Mail – Return Receipt Requested

To Whom It May Concern:

Intrepid Potash - New Mexico, LLC, Denver, Colorado, has made application to the New Mexico Oil Conservation Division to drill and complete for salt water disposal the Intrepid SWD Well No.1. The proposed commercial operation will be for produced water disposal from area operators. As indicated in the notice below, the well is located in Section 12, Township 23 South, Range 28 East in Eddy County, New Mexico.

The published notice states that the maximum interval will be from 13,600 feet to 15,900 feet.

Following is the notice published in the Artesia Daily Press, New Mexico on or about November 10, 2017.

LEGAL NOTICE

Intrepid Potash - New Mexico, LLC, 707 17TH St., Ste.4200, Denver, CO 80202, is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the Intrepid SWD No.1, is expected to be located 1030' FSL and 910' FEL, Section 12, Township 23 South, Range 28 East, Eddy County, New Mexico; approximately 4.2 miles northeast of Loving, NM. When surveyed, it's possible that the well may be staked up to and not exceeding 100 feet in any direction but intended to be located as stated.

Produced water from area production will be commercially disposed into the Devonian, Silurian and Montoya formations at a maximum interval depth of 13,600 feet to 15,900 feet at a maximum surface pressure of 2720 psi and a rate limited only by such pressure.

Interested parties wishing to object to the proposed application must file with the New Mexico Oil Conservation Division, 1220 St. Francis Dr., Santa Fe, NM 87505, (505)476-3460 within 15 days of the date of this notice. Additional information may be obtained from the applicant's agent, SOS Consulting, LLC, (903)488-9850 or, email info@sosconsulting.us.

You have been identified as a party who may be interested as an offset lessee or operator.

You are entitled to a full copy of the application. A full copy in PDF format on a mini-CD will be arriving within a few days of this notice. If you do not receive it, please call or email SOS Consulting, LLC at 903-488-9850, info@sosconsulting.us, and a copy will be expedited to you and may also be sent via email if preferred.

Thank you for your attention in this matter.

Best regards,

A handwritten signature in black ink, appearing to read "Ben Stone". The signature is fluid and cursive, with the first name "Ben" and last name "Stone" clearly distinguishable.

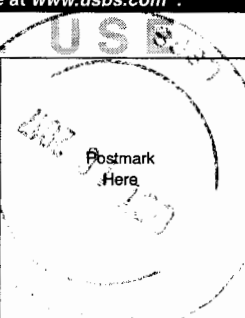
Ben Stone, SOS Consulting, LLC
Agent for Intrepid Potash-New Mexico, LLC

Cc: Application File

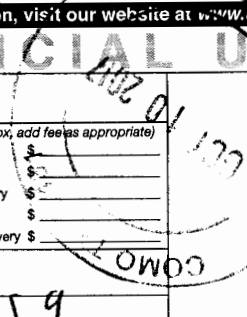
C-108 - Item XIV

Proof of Notice (Certified Mail Receipts)

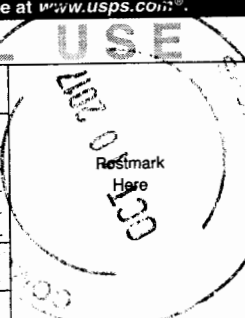
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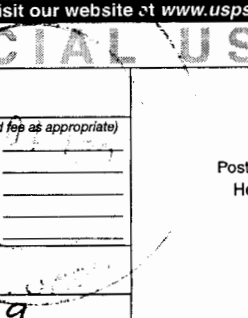
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Sent To Street and City, State DEVON ENERGY PRODUCTION COMPANY, LP 333 W. Sheridan Ave. OKC, OK 73102	
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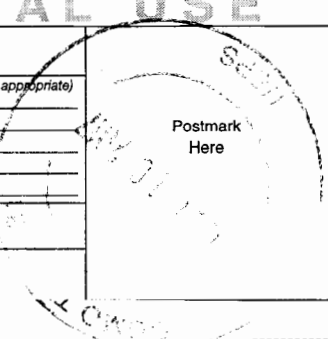
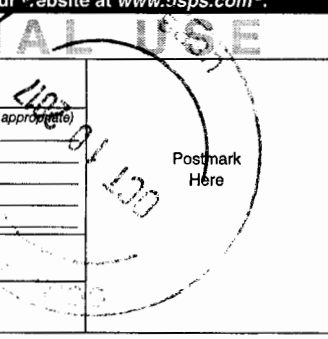
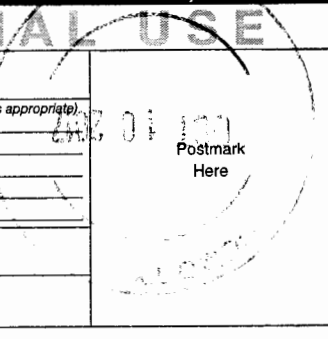
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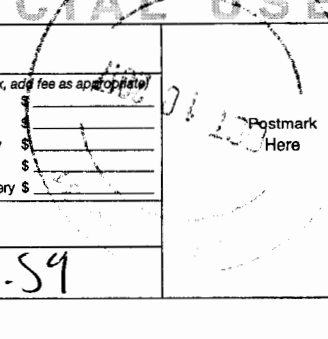
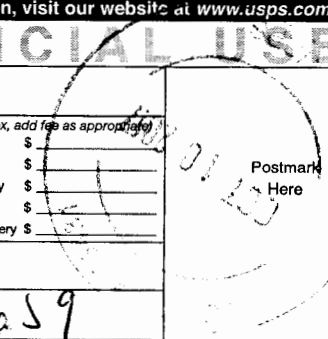
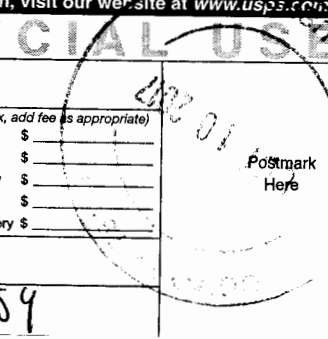
C-108 - Item XIV

Proof of Notice (Certified Mail Receipts – cont.)

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7015 3010 0001 3789 9804
7015 3010 0001 3789 9736

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7015 3010 0001 3789 9781

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C-108 - Item XIV

Proof of Notice – Legal Notice Newspaper of General Circulation

Legal Notice

Intrepid Potash - New Mexico, LLC, 707 17TH St., Ste.4200, Denver, CO 80202, is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the Intrepid SWD No.1, is expected to be located 1030' FSL and 910' FEL, Section 12, Township 23 South, Range 28 East, Eddy County, New Mexico; approximately 4.2 miles northeast of Loving, NM. When surveyed, it's possible that the well may be staked up to and not exceeding 100 feet in any direction but intended to be located as stated.

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Interested parties wishing to object to the proposed application must file with the New Mexico Oil Conservation Division, 1220 St. Francis Dr., Santa Fe, NM 87505, (505)476-3460 within 15 days of the date of this notice. Additional information may be obtained from the applicant's agent, SOS Consulting, LLC, (903)488-9850 or, email info@sosconsulting.us.

Published in the Artesia Daily Press, Artesia, N.M., Oct. 10, 2017 Legal No. 24448.

The above is the "Proof Copy" sent from the Artesia Daily Press.
The affidavit of publication will be forwarded as soon as it is received.

Intrepid

Environmental Services Company, Inc.

Corporate Office
13715 West Markham
Little Rock, AR 72211
Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch
1107 Century Avenue
Springdale, AR 72762
Tel. (479)750-1170 Fax (479)750-1172

Control Number: 1710010619
Customer Name : INTREPID POTASH - SPECIAL
Customer/Permit No. : 3983 / DP-1681
Report Date : 10/27/17

Sample Date : 10/23/17
Sample Time : 1100
Sample Type : GRAB WATER
Sample From : WW-04121

Collected By: AH
Delivery By : FEDEX
Work Order :
Purchase Order :

Laboratory Analysis							Quality Assurance	
Analysis			Result	Notes	Quantity	Method	Precision	Accuracy
Date	Time	By					Parameter	% RPD
10/26	0830	CLB	Alkalinity, Carbonate	208.00 mg/L		SM1997 2320B	0.00	N/A
10/26	1600	CLB	Alkalinity, Bicarbonate	< 10.000 mg/L		SM1997 2320B	0.00	N/A
10/25	1600	CLB	Chloride (as Cl)	4831.8 mg/L		SM1997 4500ClC	2.04	97.1 *
10/27	1041	RAH	Sodium	3700.89 mg/L		EPA 200.8	2.75	89.0 *
10/27	1041	RAH	Magnesium	828.5900 mg/L		EPA 200.8	0.34	85.3 *
10/27	1041	RAH	Potassium	8.5300 mg/L		EPA 200.8	0.38	94.6 *
10/26	1300	CLB	Calcium	828.30 mg/L		SM1997 3500Ca	2.76	97.2
10/24	1345	CLB	pH, Lab	7.10 S.U.		SM2000 4500-H+B	0.14	N/A
10/31	1300	TCF	Solids, Total Dissolved	16016.0 mg/L		SM1997 2540 C	0.17	N/A
10/27	0800	PJC	Specific Conductance	20200.0000 U MHOS		SM1997 2510B	0.99	N/A
10/27	1000	CLB	Sulfate	8152.663 mg/L		ASTM D516-07	3.39	86.0
10/26	1300	PJC	Nitrate + Nitrite	3.34 mg/L		SM2000 4500-NO3 E	0.86	96.7 *
10/27	1041	RAH	Ion Balance	8.1700 % DIFF		CALCULATED		

* QA data shown is from a different sample or standard on the same date.

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature

[Signature]
Environmental Services Co., Inc.

Affidavit of Publication

No. 24448

State of New Mexico

County of Eddy:

Danny Scott

being duly sworn says: that she is the

Publisher

of the Artesia Daily Press, a daily newspaper of General circulation, published in English at Artesia, said county and state, and that the hereto attached

Legal Ad

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for 1 Consecutive weeks/day on the same

day as follows:

First Publication October 10, 2017

Second Publication

Third Publication

Fourth Publication

Fifth Publication

Sixth Publication

Seventh Publication

Subscribed and sworn before me this

10th day of October 2017



OFFICIAL SEAL
Latisha Romine
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 5/12/2019

Latisha Romine

Latisha Romine

Notary Public, Eddy County, New Mexico

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2017 OCT 23 PM 1:07

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C-108 Review Checklist:

Received: 10/25/2017 Add. Request: 11/02/2017 Reply Date: 11/02/2017 Suspended: [Ver 15]

ORDER TYPE: WFX / PMX / SWD Number: Order Date: Legacy Permits/Orders:

Well No. #1 Well Name(s): Intrepid SWD

API: 30-0 15-44571 Spud Date: TBD New or Old: N (UIC Class II Primacy 03/07/1982)

Footages: 1030FSL 910FEL Lot or Unit D Sec 12 Tsp 235 Rge 28E County Eddy

General Location: 22 miles NW of Loving Pool: SWD, Devonian Silurian Pool No.: 9784

BLM 100K Map: Carlsbad Operator: Intrepid Potash New Mexico, LLC OGRID: 372681 Contact: Ben Stone, Agent

COMPLIANCE RULE 5.9: Total Wells: 1 Inactive: 0 Fincl Assn: OK Compl. Order: MA IS 5.9 OK? Y Date: 11-13-2017

WELL FILE REVIEWED Current Status: Proposed

WELL DIAGRAMS: NEW: Proposed RE-ENTER: Before Conv. After Conv. Logs in Imaging: N/A

Planned Rehab Work to Well:

Well Construction Details		Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sz or Cf	Cement Top and Determination Method
Planned or Existing	Surface	26"/20"	550'	1600	SURFACE/VISUAL
Planned or Existing	Interm/Prod	17 1/2"/13 3/8"	2750'	1525	SURFACE/VISUAL
Planned or Existing	Interm/Prod	12 1/4"/9 5/8"	9600'	1400	SURFACE/VISUAL
Planned or Existing	Prod/Liner	8 1/2"/5 1/2"	13600'	9300	C.R.U.P.
Planned or Existing	Liner				
Planned or Existing	OH/PERF	13600-15300	13600-15300	Inj Length 2300'	

Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.		WD	13900'
Confining Unit: Litho. Struc. Por.		DV	13600'
Proposed Inj Interval TOP:			
Proposed Inj Interval BOTTOM:			
Confining Unit: Litho. Struc. Por.			
Adjacent Unit: Litho. Struc. Por.			

Completion/Operation Details:	
Drilled TD	15900' PBTD
NEW TD	NEW PBTD
NEW Open Hole	or NEW Perfs
Tubing Size	in. Inter Coated?
Proposed Packer Depth	13500'
Min. Packer Depth	13500' (100-ft limit)
Proposed Max. Surface Press.	2720 psi
Admin. Inj. Press.	2720 (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-PN/A Noticed? BLM Sec Ord WIPP Noticed? Salt/Salado T: 225 B: 2450 NW: Cliff House fm

FRESH WATER: Aquifer 200 264 ft Max Depth 200' HYDRO AFFIRM STATEMENT By Qualified Person

NMOSE Basin: Carlsbad CAPITAN REEF: thru adj NA No. Wells within 1-Mile Radius? 27 FW Analysis

Disposal Fluid: Formation Source(s) Delaware, some springs, no FCAmp, water Analysis? On Lease Operator Only or Commercial

Disposal Int: Inject Rate (Avg/Max BWPD): 164/254 Protectable Waters? Source: System: Closed or Open

HC Potential: Producing Interval? Formerly Producing? Method: Logs/DST/P&A/Other 2-Mile Radius Pool Map

AOR Wells: 1/2-M Radius Map? Well List? Total No. Wells Penetrating Interval: region Horizontals?

Penetrating Wells: No. Active Wells Num Repairs? on which well(s)? Diagrams?

Penetrating Wells: No. P&A Wells Num Repairs? on which well(s)? Diagrams?

NOTICE: Newspaper Date October 19, 2017 Mineral Owner BLM Surface Owner Intrepid N. Date October 10, 2017

RULE 26.7(A): Identified Tracts? Affected Persons: OXY, Nunselt Minerals, Linsco N. Date October 19, 2017

Order Conditions: Issues: C-BL From 500' top of liner to base of liner

Add Order Cond: Injection b/w 13600-15300