Revised March 23, 2017

RECEIVED:	REVIEWER:	TYPE:	APP NO:
10/22/2018		SWD	pMAM1825647275

ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Geological & 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

Applicant: Intrepid Potash New Mexico, LLC **OGRID Number:** 372681
Well Name: Intrepid SWD No.2 **API:** 30-015-xxxxx
Pool: Proposed: SWD; Devonian-Silurian **Pool Code:** 97869

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

1) **TYPE OF APPLICATION:** Check those which apply for [A]

OCT 22 2018 AM10:59

A. Location – Spacing Unit – Simultaneous Dedication
☐ NSL ☐ NSP (PROJECT AREA) ☐ NSP (PRORATION UNIT) ☒ SD

B. Check one only for [I] or [II]
[I] Commingling – Storage – Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
[II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

FOR OCD ONLY
☐ Notice Complete
☐ Application Content Complete

2) **NOTIFICATION REQUIRED TO:** Check those which apply.
A. ☒ Offset operators or lease holders
B. ☐ Royalty, overriding royalty owners, revenue owners
C. ☒ Application requires published notice
D. ☒ Notification and/or concurrent approval by SLO
E. ☒ Notification and/or concurrent approval by BLM
F. ☒ Surface owner
G. ☒ For all of the above, proof of notification or publication is attached, and/or,
H. ☐ No notice required

3) **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
Print or Type Name

Signature

10/19/2018
Date

903-488-9850
Phone Number

ben@sosconsulting.us
e-mail Address

October 19, 2018

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

Attn: Ms. Heather Riley, Director

Re: Application of Intrepid Potash-New Mexico, LLC to permit for salt water disposal in the proposed Intrepid SWD Well No.2, to be located in Section 2, Township 21 South, Range 29 East, NMPM, Eddy County, New Mexico.

Dear Ms. Riley,

Please find enclosed form C-108 Application for Authority to Inject, supporting the above-referenced request to permit for disposal, the Intrepid SWD No.2.

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 will run on or about October 21, 2018 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 offset mineral owners, a copy of this application has been submitted to the Bureau of Land Management, Carlsbad Field Office, Oil and Gas Division as well as the State Land 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

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

FORM C-108
Revised June 10, 2003

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 372681)***
ADDRESS: ***1001 17TH St., Ste.1050, 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 several water wells (others, monitor or abandoned) within one mile of the proposed salt water disposal well. The Intrepid water well monitoring report for 2 wells within 1 mile is ATTACHED.***

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 3 offset lessees within 1 mile, BLM and state 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: ***10/18/2018***

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:

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

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.

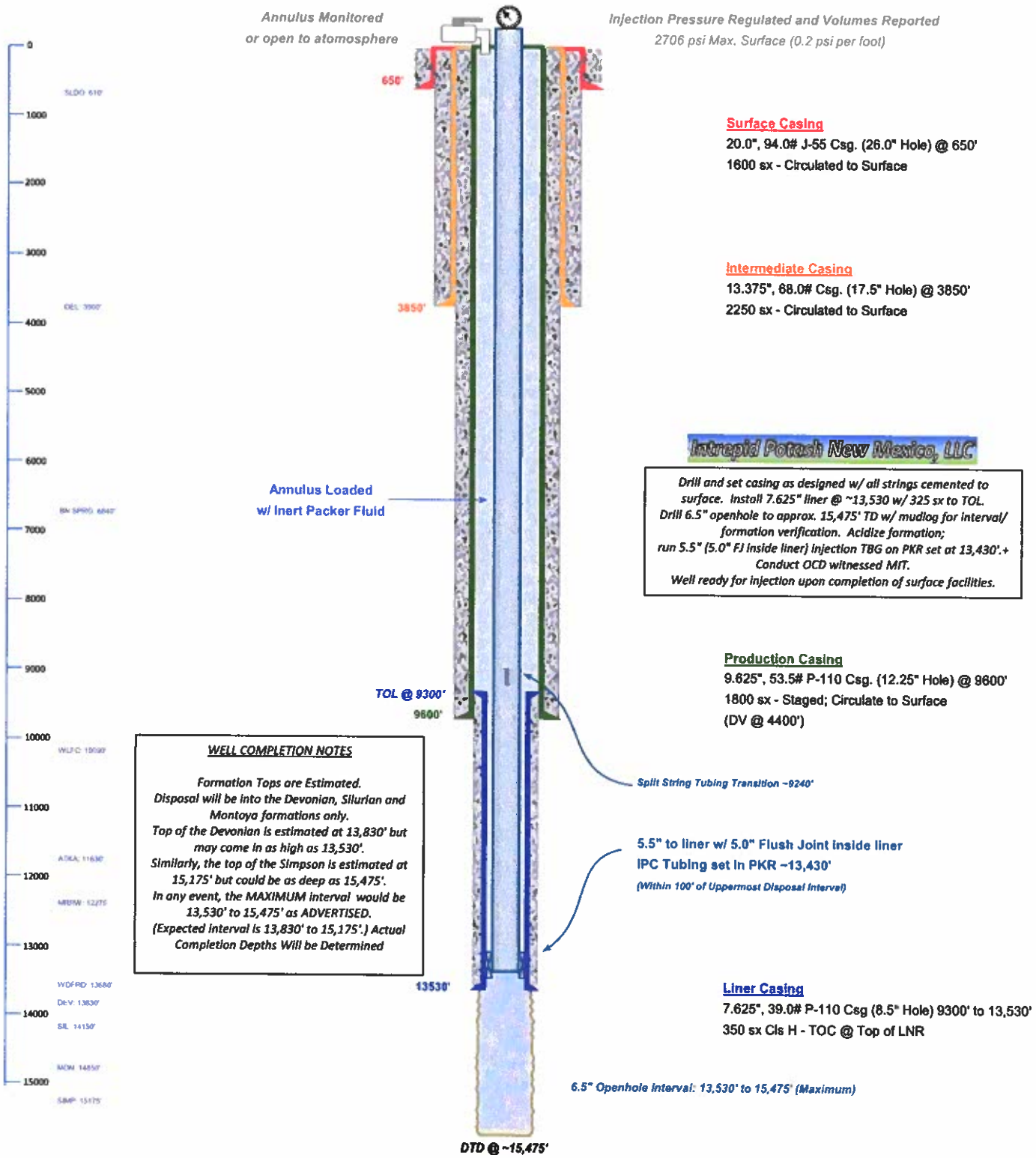
NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

WELL SCHEMATIC - PROPOSED
Intrepid SWD Well No.2

INTREPID
Essential Minerals for Success

API 30-015-xxxxx
505.6' FNL & 1474.7' FEL, SEC. 2-T21S-R29E
EDDY COUNTY, NEW MEXICO

Proposed: SWD; Devonian-Silurian-Montoya
Spud Date: 1/15/2019
SWD Config Dt: 2/15/2019



Surface Casing
20.0", 94.0# J-55 Csg. (26.0" Hole) @ 650'
1600 sx - Circulated to Surface

Intermediate Casing
13.375", 68.0# Csg. (17.5" Hole) @ 3850'
2250 sx - Circulated to Surface

Intrepid Potash New Mexico, LLC

Drill and set casing as designed w/ all strings cemented to surface. Install 7.625" liner @ ~13,530 w/ 325 sx to TOL. Drill 6.5" openhole to approx. 15,475' TD w/ mudlog for interval/ formation verification. Acidize formation; run 5.5" (5.0" FJ inside liner) injection TBG on PKR set at 13,430'.+ Conduct OCD witnessed MIT. Well ready for injection upon completion of surface facilities.

Production Casing
9.625", 53.5# P-110 Csg. (12.25" Hole) @ 9600'
1800 sx - Staged; Circulate to Surface
(DV @ 4400')

WELL COMPLETION NOTES

Formation Tops are Estimated.
Disposal will be into the Devonian, Silurian and Montoya formations only.
Top of the Devonian is estimated at 13,830' but may come in as high as 13,530'.
Similarly, the top of the Simpson is estimated at 15,175' but could be as deep as 15,475'.
In any event, the MAXIMUM interval would be 13,530' to 15,475' as ADVERTISED.
(Expected interval is 13,830' to 15,175'.) Actual Completion Depths Will be Determined

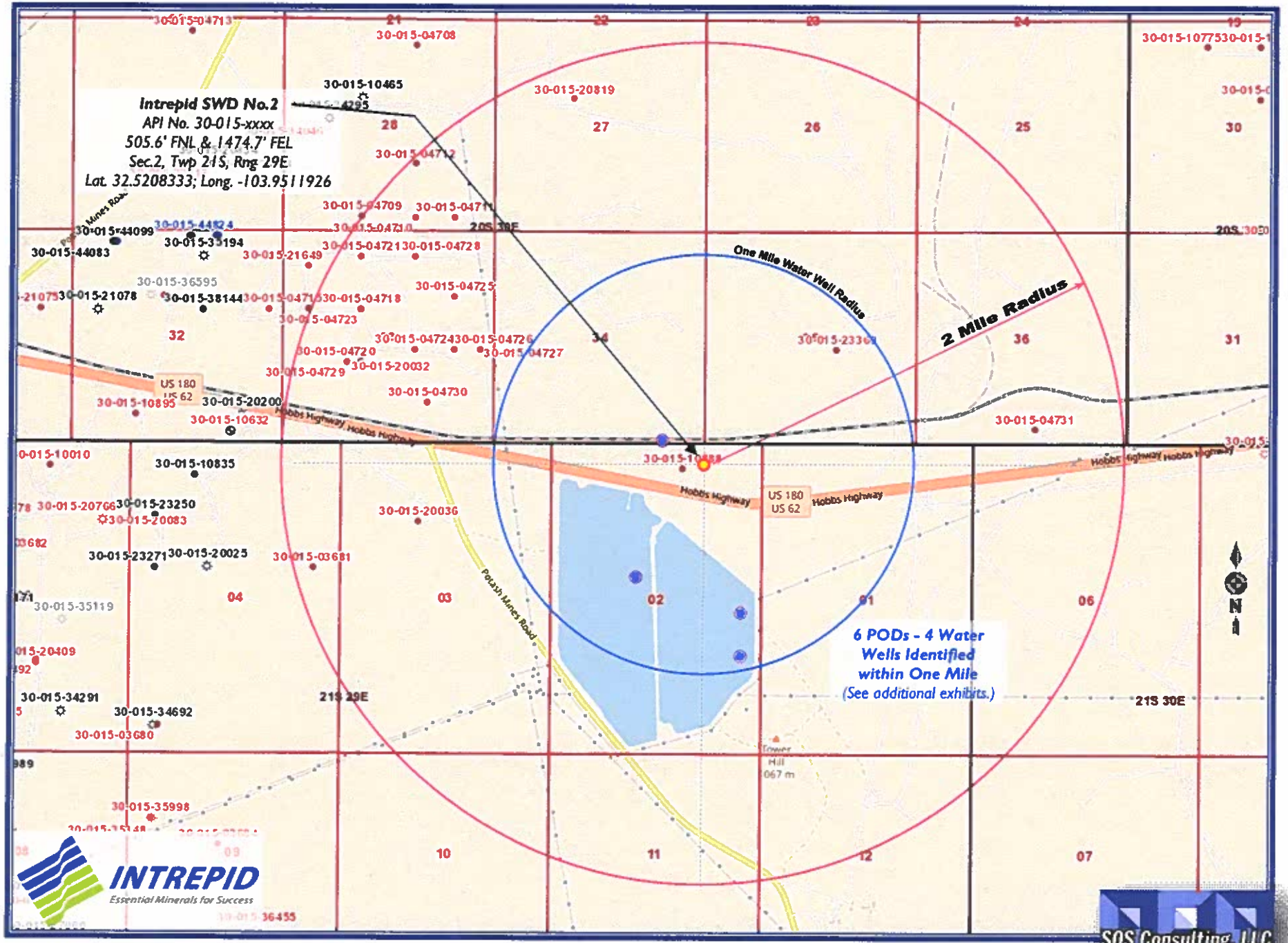
Liner Casing
7.625", 39.0# P-110 Csg (8.5" Hole) 9300' to 13,530'
350 sx Cls H - TOC @ Top of LNR

Drawn by: Ben Stone, Rvs'd 10/18/2018

SOS Consulting, LLC

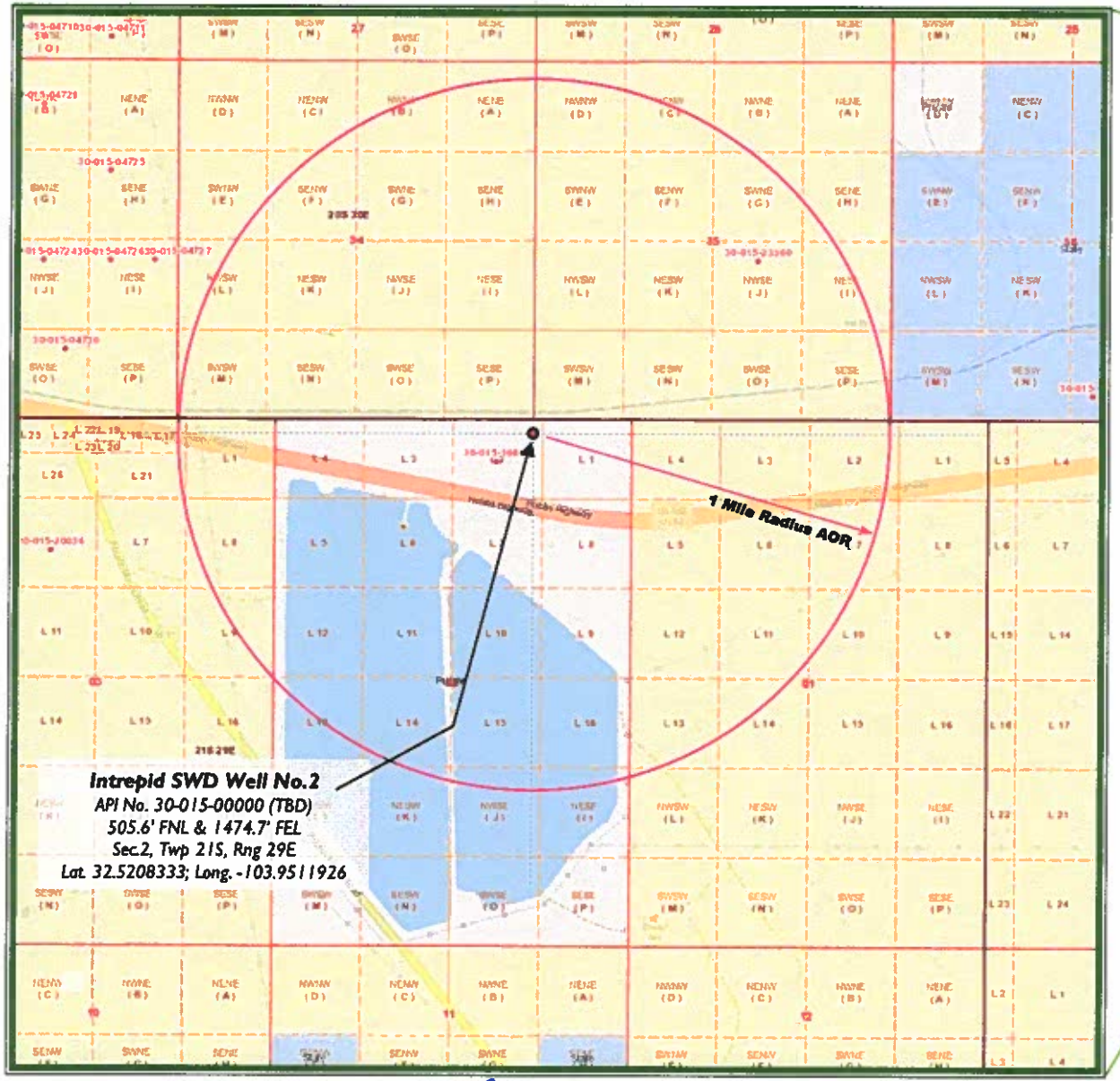
Intrepid SWD No.2 - Area of Review / 2 Miles

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



Intrepid SWD Well No.2 - Area of Review / Overview Map

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



17.5 miles E/NE of Carlsbad, NM

Eddy County, New Mexico

INTREPID
Essential Minerals for Success

SOS Consulting, LLC

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.

C-108 Item VII
Proposed Operation

Intrepid SWD No.2

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 30,000 bpd and an average of 17,500 bpd at a maximum surface injection pressure of 2706 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 ANAYLSES

Item VII.4 – Water Analysis of Source Zone Water

Glorieta/ Yeso
Bone Spring
Wolfcamp

Item VII.5 – Water Analysis of Disposal Zone Water

Devonian

Water Analyses follow this page.

C-108 Item VII.5 - Produced Water Data

Intrepid Potash NM, LLC - Intrepid SWD No.2 Project

SOURCE ZONE

GLO/YESO

Lab ID

Sample ID 1146

API No 3001524754

Well Name PLATT PA 009 Sample No

Location ULSTR 26 18 S 26 E **Lat / Long** 32.71216 -104.35742

330 S 990 W **County** Eddy

Operator (when sampled) Yates Petroleum Corp.

Field ATOKA Unit M

Sample Date 8/4/1984 Analysis Date

Sample Source Wellhead Depth (if known)

Water Typ Produced Water

ph	7.5	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	1800
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	120382	resistivity_ohm_cm_temp_	
tds_mgL_180C		conductivity	
chloride_mgL	113000	conductivity_temp_F	
sodium_mgL	71415	carbonate_mgL	0
calcium_mgL	2560	bicarbonate_mgL	476
iron_mgL	0	sulfate_mgL	2001
barium_mgL		hydroxide_mgL	
magnesium_mgL	0	h2s_mgL	0
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	

Remarks

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

SOS Consulting, LLC

C-108 Item VII.5 - Produced Water Data

Intrepid Potash NM, LLC - Intrepid SWD No.2 Project

SOURCE ZONE

GLO/YESO

Lab ID
Sample ID 1207
Sample No

API No 3001524619
Well Name PLATT PA 008

Location ULSTR 26 18 S 26 E **Lat / Long** 32.71245 -104.35329
430 S 2260 W **County** Eddy

Operator (when sampled) Yates Petroleum Corporation
Field ATOKA Unit N
Sample Date 1/19/1985 Analysis Date

Sample Source well head Depth (if known)
Water Typ Produced Water

ph	6	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	11500
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	136324	resistivity_ohm_cm_temp	
tds_mgL_180C		conductivity	
chloride_mgL	121000	conductivity_temp_F	
sodium_mgL	61571	carbonate_mgL	
calcium_mgL	4160	bicarbonate_mgL	104
iron_mgL	0	sulfate_mgL	3720
barium_mgL		hydroxide_mgL	
magnesium_mgL	7340	h2s_mgL	
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	

Remarks

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

SOS Consulting, LLC

C-108 Item VII.5 - Produced Water Data

Intrepid Potash NM, LLC - Intrepid SWD No.2 Project

SOURCE ZONE

BONE SPRING

								Lab ID	
								Sample ID	5847
API No	3001520225							Sample No	
Well Name	BIG EDDY UNIT			012					
Location	ULSTR	21	20	S	31	E	**Lat / Long**	32.56399	-103.87994
		660	N		660	W		**County**	Eddy
Operator (when sampled)		MALLON OIL COMPANY							
	Field	BIG EDDY						**Unit**	D
Sample Date	8/27/1999			Analysis Date	8/31/1999				

Sample Source

Water Typ

Depth (if known)

ph	5.2	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity	1.125	hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	181697	resistivity_ohm_cm_temp_	
tds_mgL_180C		conductivity	
chloride_mgL	123750	conductivity_temp_F	
sodium_mgL	73895.6	carbonate_mgL	
calcium_mgL	5625	bicarbonate_mgL	13.725
iron_mgL	337.5	sulfate_mgL	787.5
barium_mgL		hydroxide_mgL	
magnesium_mgL		h2s_mgL	0
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	

Remarks

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

SOS Consulting, LLC

C-108 Item VII.5 - Produced Water Data

Intrepid Potash NM, LLC - Intrepid SWD No.2 Project

SOURCE ZONE

WOLFCAMP

Lab ID

Sample ID 5688

Sample No

API No 3001520138

Well Name MAHUN STATE 001

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 Sourc 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.)

SOS Consulting, LLC

C-108 Item VII.5 - Produced Water Data
Intrepid Potash NM, LLC - Intrepid SWD No.2 Project

DISPOSAL ZONE

DEVONIAN

								Lab ID	
API No.	3001510280							**Sample ID**	6170
Well Name	JURNEGAN POINT				001			Sample No	
Location	ULSTR	05	24	S	25	E	**Lat / Long**	32.24037	-104.42375
		660		S	660	W		**County**	Eddy

Operator (when sampled)

Field WILDCAT Unit M

Sample Date 12/14/1964 Analysis Date

Sample Source DST 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	229706	resistivity_ohm_cm_temp_	
tds_mgL_180C		conductivity	
chloride_mgL	136964	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	198
iron_mgL		sulfate_mgL	2511
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.)

SOS Consulting, LLC

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 15,275' below ground level (15,575' contingent) 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 depth of 13,530' 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 13,830' but may come in as high as 13,530'. Similarly, the top of the Simpson is estimated at 15,175' but could be as deep as 15,475'. In any event, the MAXIMUM interval would be 13,530' to 15,475' as ADVERTISED. (Expected interval may be 13,830' to 15,175'.) Actual completion depths will be determined by mud and openhole logs and will be reported by sundry notice and the C-105 completion report.

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 the Rustler and overlying, localized occurrences of Dewey Lake or Quaternary deposits. State Engineer's records show water wells in the area with a depth to groundwater of 200 to 315 feet with an average depth to groundwater of 241 feet.

There are several water wells located within one mile of the proposed SWD (some are abandoned and some are monitor wells); Intrepid's monitoring reports are attached.

C-108 – Item VIII

Geologic Information

Formation Tops

Dan Tschopp, Corporate Manager of Geology and GIS
Intrepid Potash Company

Formation	~TVD	Completed Interval	Contingency	Permitted Interval
SLDO	610			
DLWR	3,900			
BSPG	6,840			
WFMP	10,090			
ATOK	11,630			
MRRW	12,275			
MSSPL	13,230			
WDFDSH	13,680			
DVNN	13,830	13,830 to 15,175 plus/minus contingency	-300	13,530
SLRN	14,150			
MNTY	14,850			
SMPS	15,175		+300	15,475
Total Depth	15,275		+300	15,575

C-108 – Item VIII

Geologic Information

Induced Seismicity Near Intrepid SWD 2 Proposed Location

Dan Tschopp, Corporate Manager of Geology and GIS

Intrepid Potash Company

Five Mile Radius

There are two salt water disposal (SWD) wells within five miles of Intrepid's proposed SWD 2. Both inject into the Guadalupian.

Per the USGS Earthquake Hazards Program, there have been zero recorded earthquakes in the same radius. This is likely due to the lack of documented basement faults in the vicinity.

Please refer to the attached map for SWD locations and volume information, plus earthquake activity.

Ten Mile Radius

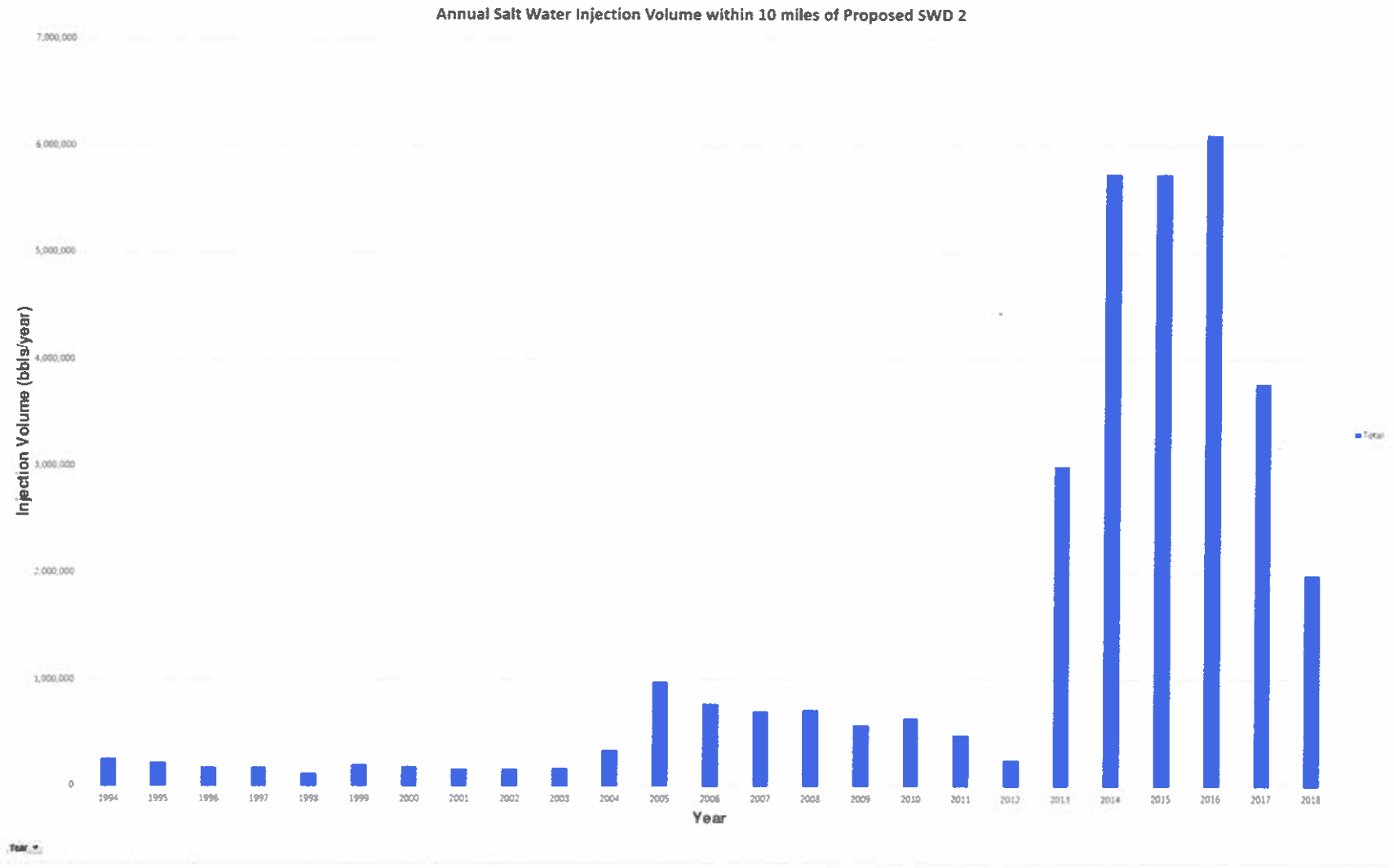
Due to lack of Devonian data within five miles, the search radius was increased to ten miles. At this point the SWD well count increases to thirteen, with four injecting in or below the Devonian.

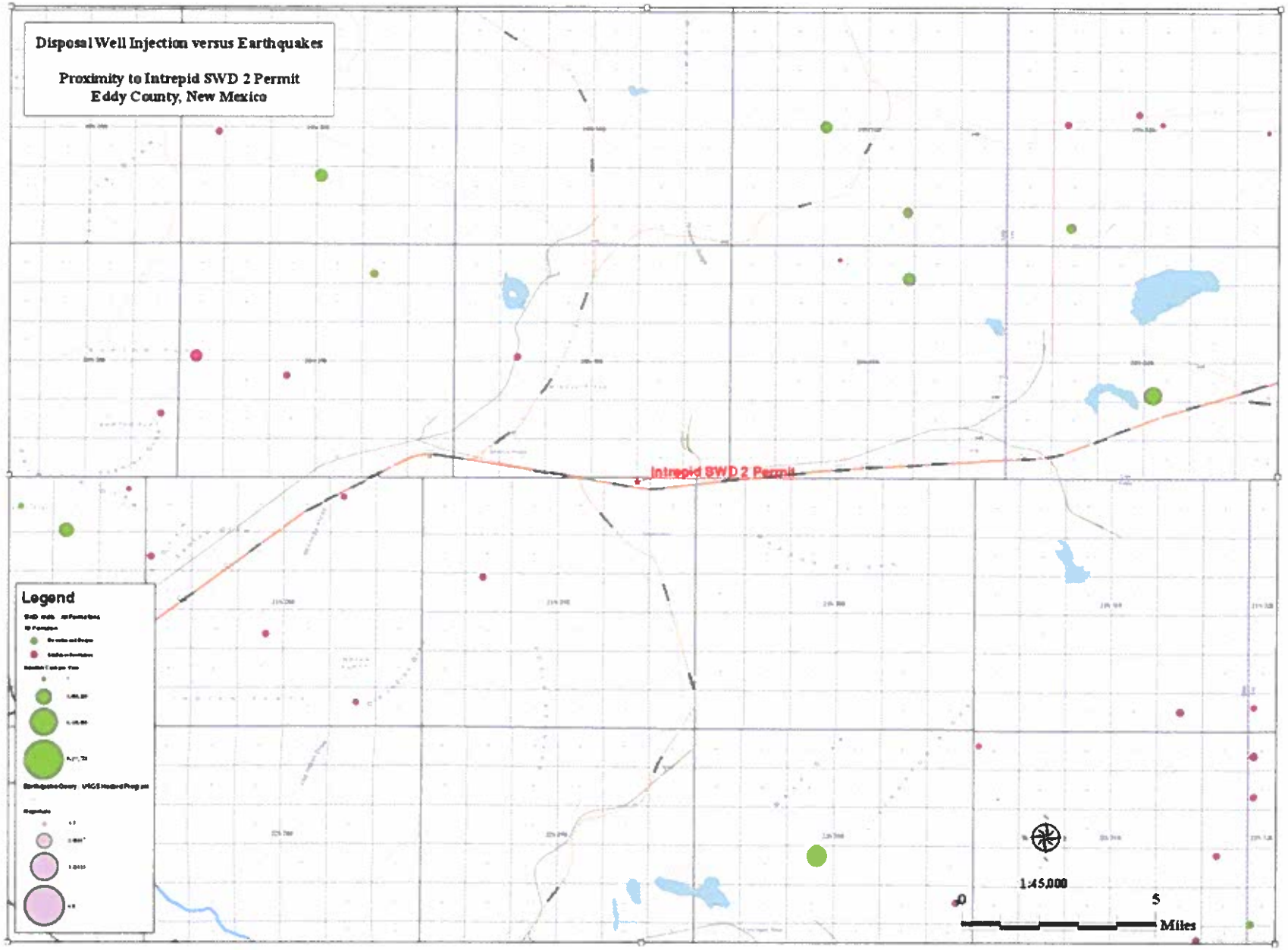
Despite the increase in well count and injection volumes, both above and below the Devonian, there are zero recorded earthquakes within this radius. This is likely due to the lack of documented basement faults in the vicinity.

Please refer to the attached chart for injection volume information for the wells discussed within the ten mile radius. Also, please revert to the map for SWD locations and volume information, plus earthquake activity.

Conclusion

Due to the absence of earthquake activity in the area, and the distance from documented basement faults, there appears to be minimal risk of inducing seismicity in the vicinity of SWD 2.


Annual Salt Water Injection Volume within 10 miles of Proposed SWD 2
Injection Volume (bbls/year)
7,000,000
6,000,000
5,000,000
4,000,000
3,000,000
2,000,000
1,000,000
0
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
Year
Total
Year


Disposal Well Injection versus Earthquakes
Proximity to Intrepid SWD 2 Permit
Eddy County, New Mexico
Intrepid SWD 2 Permit
Legend
1:45,000
0
5
Miles

C-108 Item XI
Water Wells in AOR

There are 4 water/ monitoring wells (6 PODs) within one mile of the proposed SWD.

New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum) (R=POD has been replaced and no longer serves this file C=the file is closed) (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q q q 64 16 4	Sec	Twn	Rng	X	Y
CP 00420	CP	PRO	0	MCVAY DRILLING COMPANY	ED	CP 00420			Shallow	4 2	02	21S	29E	598734	3597479
CP 00844	CP	IND	1451	INTREPID POTASH-NEW MEXICO LLC	ED	CP 00844 POD3			Shallow	1 3	02	21S	29E	597930	3597739
					ED	CP 00844 POD4			Shallow	3 2 2	02	21S	29E	598108	3598824
CP 00845	CP	IND	1451	INTREPID POTASH-NEW MEXICO LLC	ED	CP 00845 POD3				2 2 4	02	21S	29E	598734	3597149
CP 00867	CP	EXP	0	H & B POTASH	ED	CP 00867 POD1				2 2 4	02	21S	29E	598734	3597149
CP 00868	CP	EXP	0	H & B POTASH	ED	CP 00868 POD1			Artesian	4 2 1	02	21S	29E	597930	3597739

Record Count: 6

PLSS Search:

Section(s): 2 **Township:** 21S **Range:** 29E

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q q q 64 16 4	Sec	Twn	Rng	X	Y
~~CP 00840~~	~~CP~~	~~IND~~	~~1451~~	~~INTREPID POTASH-NEW MEXICO LLC~~	~~ED~~	~~CP 00840 POD4~~				1 4 3	01	21S	30E	599506	3596885

Outside 1-mile radius.

Record Count: 1

PLSS Search:

Section(s): 1 **Township:** 21S **Range:** 30E

No PODs found

PLSS Search:

Section(s): 34 **Township:** 20S **Range:** 30E

No PODs found.

PLSS Search:

Section(s): 35 **Township:** 20S **Range:** 30E

The monitoring reports for 2 of the closest wells follows in this section.

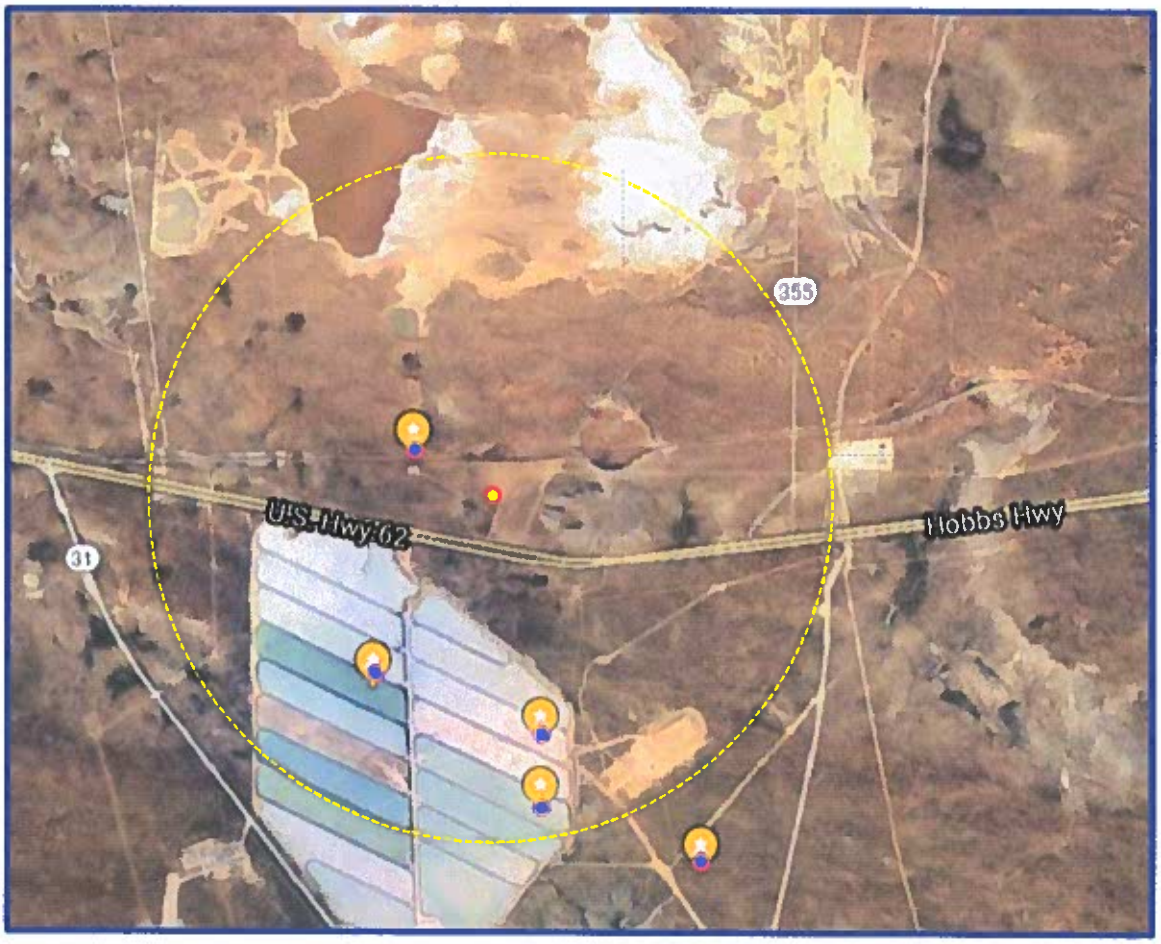
C-108 Item XI

Water Wells Within One Mile

Intrepid SWD No.2 - Water Well Locator Map

There are 4 water/ monitor wells/ (6 PODs) within a one-mile radius of the proposed SWD.

Intrepid's monitoring report for 2 wells is included.



Data from NM Office of the State Engineer displayed in Google Earth

SOS Consulting, LLC

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 Number	POD Sub-basin Code	County	Q 64	Q 16	Q 4	Sec	Twn	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02223	C	ED	1	2	2	36	21S	29E	600316	3589948*	350	200	150
C 03764 POD1	CUB	ED	4	3	3	25	21S	29E	599329	3590096	460		
CP 00420	CP	ED		4	2	02	21S	29E	598734	3597479*	308	210	98
CP 00430	CP	ED	1	4	1	03	21S	29E	596221	3597558*	360	225	135
CP 00644 POD3	CP	ED		1	3	02	21S	29E	597931	3597739	400	248	152
CP 00644 POD4	CP	ED	3	2	2	02	21S	29E	598109	3598824	518	315	203
CP 00988 POD1	CP	ED	4	2	1	02	21S	29E	597931	3597739	400	248	152

Average Depth to Water: **241 feet**

Minimum Depth: **200 feet**

Maximum Depth: **315 feet**

Record Count: 7

PLSS Search:

Township: 21S **Range:** 29E

*UTM location was derived from PLSS - see Help

Table 4 - Groundwater Elevation and Analytical Data
First Quarter 2018 Monitoring Report

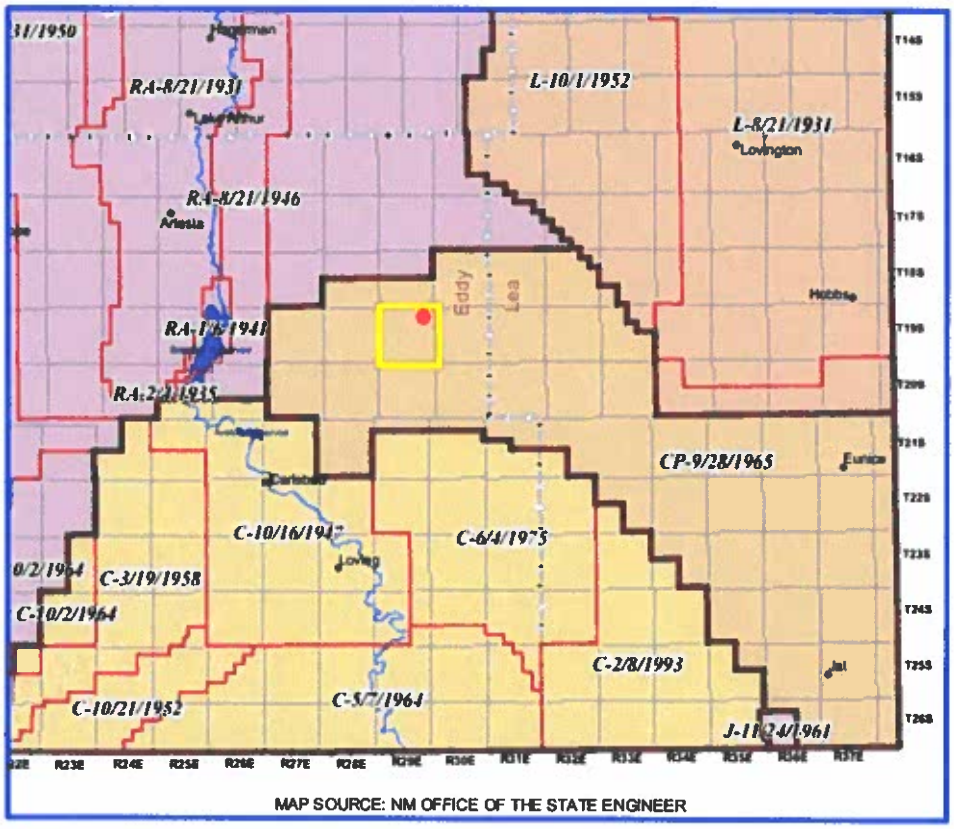
	Water Level			Field Parameters					Laboratory Reported Results (mg/L, unless otherwise stated)																			
									RCRA Metals								Major Cations				Major Anions					Other Analytes			
Sample Date	Depth to Water (ft bloc)	Casing Elevation (ft msl)	Water Level Elevation (ft msl)	Temp. (F)	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	pH (su)	ORP (mV)	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Calcium	Magnesium	Potassium	Sodium	Bicarbonate	Carbonate	Chloride	Nitrate + Nitrite	Sulfate	Specific Conductance (umhos/cm)	Ion Balance (%)	pH (su)	TDS
									IP-WW-003																			
3/28/2007	213 36	3404 41	3191 05	NA	NA	NA	NA	NA	<0 01J	0 018J	<0 010*	<0 050J	<0 012J	<0 00020	<0 012J	<0 012J	560J	110J	22J	82J	94	<10	110	1 7 J	1,600	3,000	5	7 5	3,100
3/28/2007	213 36	3404 41	3191 05	NA	NA	NA	NA	NA	<0 01J	0 01	<0 0040	<0 050J	<0 0050	<0 00020	<0 012J	<0 0050	590J	120J	22J	83J	95	<10	100	1 8	1,500 J	3,000	11	7 5	3,000
3/28/2007	213 36	3404 41	3191 05	NA	NA	NA	NA	NA	0 01J	0 01	<0 0040	<0 050J	<0 0050	<0 00020	<0 012J	<0 0050	570J	120J	21	79J	95	<10	100	1 8	1,500	3,000	9	7 6	2,800
6/5/2007	209 54	3404 41	3194 87	NA	NA	NA	NA	NA	0 01	0 05	<0 0040	<0 010	<0 0050	<0 00020	<0 0050	<0 0050	610J	120J	19J	110J	100	<10	100	0 6	1,800	3,000	5	7 9	3,000
8/27/2007	207 71	3404 41	3196 70	NA	NA	NA	NA	NA	<0 05J	<0 10J	<0 040*	<0 10	<0 050J	<0 00020	<0 050J	<0 050J	610J	130	<1 0	100	110	<10	110	0 9	1,700	3,000	7	7 5	3,100
12/11/2007	207 35	3404 41	3197 06	NA	NA	NA	NA	NA	0 02	0 02	0 00023	<0 10	0 00	<0 00020	0 01	<0 00040	600J	120J	27J	180J	93	<10	110	1 3	1,700 J	3,000	9	7 4	2,300
3/25/2008	208 93	3404 41	3195 48	71	2,936	E	3 8	362	0 01	0 01	<0 0009	<0 10J	<0 0005	<0 00020	<0 004	<0 002	610J	130J	13J	95J	130	<10	89	1 5	1,600	3,100	7	7 5	1,400
7/22/2008	212 20	3404 41	3192 21	71	3,020	E	7 4	-163	0 01	0 01	0 00022	<0 010	0 00	<0 0002	0 00	<0 0004	630J	120J	12	80J	93	<10	100	1 4	1,700	3,000	5	7 4	1,800
9/13/2008	213 85	3404 41	3190 56	90	4,356	E	7 1	-79	0 01J	0 012J	<0 0009 *	<0 010	0 00057J	<0 0002	<0 004 J	<0 002 J	600 J	130 J	13	120 J	120	<10	100	1 5	1,600	3,100	8	7 3	2,600
4/6/2009	219 11	3404 41	3185 30	70	2,857	E	7 5	-199	0 01J	0 012J	<0 0009*	<0 10J	<0 002J	<0 0002	0 0044J	<0 002J	570	120	11	87	95	<10	100	1 4	1,800	3,000	0	7 6	800
7/15/2009	220 02	3404 41	3184 39	71	2,901	E	7 2	-134	0 01	0 01	<0 0009*	<0 10J	<0 002J	<0 0002	<0 004J	<0 002J	590	120	14	96	95	<10	100	1 5	1,900	2,900	-1	7 5	2,300
10/7/2009	221 30	3404 41	3183 11	70	2,847	E	7 4	-113	0 01	0 01	<0 0009*	<0 10J	<0 002J	<0 0002	0 01	<0 002J	620	130	13	100	95	<10	100	1 3	1,800	3,000	5	7 5	2,600
1/5/2010	221 76	3404 41	3182 65	70	2,777	E	7 3	-276	0 01	0 01	<0 0009*	<0 10J	<0 002J	<0 0002	0 01	<0 002J	590	140	15	120	100	<10	110	1 3	1,900	3,300	2	7 4	3,000
8/9/2010	222 94	3404 41	3181 47	71	3,045	E	3 9	317	0 01	0 01	<0 0009*	<0 10J	<0 002J	<0 0002	0 00	<0 002J	614	133	12 7J	105	97	<10	115	1 4	1,820	2,960	4	7 5	2,300
12/14/2010	222 74	3404 41	3181 67	71	2,795	E	7 3	-141	0 01	0 01	<0 0009*	<0 10J	<0 002J	<0 00015	0 01	<0 002J	590	133	13 1J	111	90	<10	107	1 4	1,810	3,190	3	7 6	1,000
3/22/2011	222 65	3404 41	3181 76	71	2,899	E	7 4	-134	0 01	0 01	<0 0009*	<0 10J	0 01	<0 00015	0 01	<0 002J	565	129	14	115	97	<10	123	1 4	1,790	2,810	1	7 5	2,300
5/23/2011	222 53	3404 41	3181 88	71	2,945	E	7 3	-110	0 01	0 01	<0 0009*	<0 10J	<0 002J	<0 00015	<0 004J	<0 002J	574	134	13	110	98	<10	106	1 2	1,810	3,050	2	7 6	3,100
8/22/2011	222 55	3404 41	3181 86	71	3,218	E	7 3	-80	0 01	0 01	<0 0009*	<0 10J	<0 002J	<0 00015	0 01	<0 002J	590	133	12	112	98	<20	117	1 4	755	3,040	10	7 5	1,500
10/16/2011	222 81	3404 41	3181 60	71	3,106	E	7 4	-79	0 01	0 01	<0 0009*	<0 10	<0 002J	<0 00015	<0 004J	<0 002J	616	128	12	105	92	<10	148	1 4	2,020	3,160	-2	7 6	3,300
3/23/2012	223 22	3404 41	3181 19	71	2,911	E	7 3	-169	0 01	0 01	<0 0009*	<0 10J	<0 002J	<0 00015	0 01	<0 002J	625	126	18	114	94	<10	123	1 3	1,240 J	3,190	20	7 6	2,300
6/12/2012	223 57	3404 41	3180 84	71	3,205	E	7 4	-131	0 02	0 01	<0 0009	<0 10J	<0 002J	<0 00015	0 01	<0 002J	521	122	12	106	90	<10	123	1 3	1,660	3,200	1	7 4	2,700
9/11/2012	238 90	3404 41	3165 51	71	3,101	0 9	7 4	-172	0 01	0 01	<0 0025	<0 10J	<0 010	<0 00015	<0 01	<0 01	523 J	122	15 3J	108	91	<10	126	1 3	1,750 J	3,240	-1	7 2	2,300
12/13/2012	239 30	3404 41	3165 11	70	3,299	0 7	7 5	-139	0 01	<0 01J	<0 0025*	<0 10J	<0 010J	<0 00015	<0 01J	<0 01J	578	126	12	110	90	<10	138	1 3	2,220	3,950	-8	7 6	2,000
3/27/2013	241 25	3404 41	3163 16	71	3,845	E	NA	-325	0 01	0 01	<0 0025*	<0 10J	<0 01J	<0 00015	<0 01J	<0 01J	601	122	12	97	90	<10	112	1 4	1,660	3,250	6	7 5	2,800
6/11/2013	241 85	3404 41	3162 56	71	3,176	E	7 5	-175	0 01	<0 01	<0 0025	<0 10J	<0 01J	<0 00015	<0 01	<0 01	514	127	13	95	100	<20	114	1 4	1,850	3,230	-4	7 6	2,200
9/24/2013	242 70	3404 41	3161 71	71	3,135	E	7 4	-118	<0 02J	<0 02J	<0 005*	<0 02J	<0 02J	<0 00015	<0 02J	<0 02J	531	114	11	90	104	<10	137	1 5	1,870	3,960	-6	7 5	4,700
12/12/2013	243 13	3404 41	3161 28	70	3,211	1 1	7 4	-69	<0 01J	0 02	<0 0025*	<0 01J	<0 01J	<0 00015	<0 01J	<0 01J	553	119	12	112	97	<10	137	1 6	1,970	2,860	-5	7 6	4,200
3/26/2014	243 32	3404 41	3161 09	70	3,755	E	7 4	-124	<0 05J	<0 02J	<0 005*	<0 02J	<0 02J	<0 00015	<0 02J	<0 02J	530	109	12	109	97	<10	164	1 8	2,400	3,290	-16	7 6	2,900 J
6/9/2014	244 20	3404 41	3160 21	75	3,023	3 4	7 4	-71	0 01	<0 01J	<0 10	<0 01	<0 01J	<0 0005	0 03	<0 01J	527	157	29	132	100	<10	140	1 6	3,496	3,410	-26	7 8	3,412
7/29/2014	244 20	3404 41	3160 21	76	3,697	3 6	7 1	-108	0 01	0 01	<0 10	<0 01	<0 01	<0 0005	<0 01	<0 01	540	125	98	107	104	<10	130	1 8	2,041	3,350	-4	7 5	3,584
11/12/2014	245 60	3404 41	3158 81	68	3,195	0 6	7 4	-32	0 01	0 02	<0 10	<0 01	<0 01	<0 0005	0 01	<0 01	561	137	9	109	108	<10	135	1 8	2,253	3,440	-9	7 8	3,592
2/17/2015	NA	3404 41	NA	70	2,964	0 9	7 3	-8	0 02	<0 01	<0 10	<0 01	<0 01	<0 0005	0 02	<0 01	561	137	12	115	98	<10	145	1 9	2,187	4,830	-7	7 8	3,460
5/13/2015	244 00	3404 41	3160 41	NS	NS	NS	NS	NS	NS	NS	<0 10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8/12/2015	244 70	3404 41	3159 71	71	2,910	1 1	7 3	336	0 01	0 02	<0 10	<0 01	<0 01	<0 001	0 02	<0 01	540	145	14	114	100	<10	135	1 1	1,863	2,930	2	7 4	3 160
12/3/2015	249 20	3404 41	3155 21	70	3,082	1 2	7 2	-139	0 01	<0 01	<0 10	<0 01	<0 01	<0 001	<0 01	<0 01	549	54	11	216	100	<10	140	2 1	1,711	3,360	0	7 7	3,660
3/16/2016	244 30	3404 41	3160 11	71	3,230	1 1	7 4	-146	<0 01	<0 01	<0 10	<0 01	<0 01	<0 001	<0 01	<0 01	661	148	13	120	90	<10	200	5 7	2,089	4,640	0	7 7	3,590
4/28/2016	243 80	3404 41	3160 61	71	3,662	1 8	7 4	-48	<0 01	<0 01	<0 10	<0 1	<0 01	<0 01	0 01	<0 01	721	140	13	126	90	<100	1,000	2 5	2,083	2,940	-16	7 4	3,410
7/27/2016	244 60	3404 41	3159 81	72	3,762	1 8	7 4	-49	<0 01	<0 01	<0 01	<0 01	<0 01	0 000	<0 01	<0 01	721	28	87	622	96	<10	170	2 1	3,013	2,780	-1	7 7	8,510
11/17/2016	240 60	3404 41	3163 81	71	3,270	2 0	7 3	-43	<0 01	<0 01	<0 01	<0 01	<0 01	<0 001	<0 01	<0 01	802	119	11	97	92	<10	200	2 3	1,679	2,990	16	7 4	3,960
1/26/2017	244 71	3404 41	3159 70	71	3,191	2 0	E	E	<0 01	<0 01	<0 01	<0 01	<0 01	<0 001	<0 01	<0 01	577	113	12	78	90	<10	145	2 2	1,567	2,890	5	7 6	2,840
5/4/2017	244 80	3404 41	3159 61	71	3,253	2 0	7 3	-34	<0 01	<0 01	<0 01	<0 01	<0 01	<0 001	<0 01	<0 01	573	169	10	75	86	<10	149	1 9	1,502	2,880	11	7 5	2,800
8/24/2017	244 21	3404 41	3160 20	72	3,246	2 1	7 2	-9	<0 01	<0 01	<0 01	<0 01	<0 01	<0 001	<0 01	<0 01	611	103	10	93	98	<10	160	2 1	1,763	3,603	1	8 1	2,990
11/15/2017	244 78	3404 41	3159 63	71	3,285	2 1	7 6	-21	<0 01	<0 01	<0 01	<0 01	<0 01	<0 001	<0 01	<0 01	701	124	11	104	98	<10	159	2 0	1,767	3,551	8	7 5	3,030
11/15/2017(dup)									<0 01	<0 01	<0 01	<0 01	<0 01	<0 001	<0 01	<0 01	711	146	11	103	96	<10	129	1 9	1,746	3,569	11	7 4	3,000
2/8/2018	245 02	3404 41	3159 39	71	3,277	2 1	6 9	50	<0 01	<0 01	<0 01	<0 01	<0 01	<0 001	<0 01	<0 01	621	126	11	105	92	<10	160	2 2	1,760	3,500	4	7 2	3,250

Table 4 - Groundwater Elevation and Analytical Data
First Quarter 2018 Monitoring Report

Sample Date	Water Level			Field Parameters					Laboratory Reported Results (mg/L, unless otherwise stated)																		
									RCRA Metals								Major Cations				Major Anions					Other Analytes			
	Depth to Water (ft bgsc)	Casing Elevation (ft msl)	Water Level Elevation (ft msl)	Temp. (F)	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	pH (su)	ORP (mV)	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Calcium	Magnesium	Potassium	Sodium	Bicarbonate	Carbonate	Chloride	Nitrate + Nitrite	Sulfate	Specific Conductance (umhos/cm)	Ion Balance (%)	pH (su)	TDS
																	SP-WW-007											
7/20/2007	NA	3373 80	NA	NA	NA	NA	NA	NA	<0 05J	0 072J	<0 040*	<0 10	<0 050J	<0 00020	<0 050J	<0 050J	630J	290J	8 9J	480J	85	<10	1,700	6 0	950	6,600	5	7 6	5,100
7/20/2007	NA	3373 80	NA	NA	NA	NA	NA	NA	<0 05J	0 058J	<0 040*	<0 10	<0 050J	<0 00020	<0 050J	<0 050J	640J	300J	7 8J	480J	79	<10	1,800	4 8	740	6 600	6	7 5	5,300
7/20/2007	NA	3373 80	NA	NA	NA	NA	NA	NA	<0 05J	0 094J	<0 040*	<0 10	<0 050J	<0 00020	<0 050J	<0 050J	630J	290J	8 1J	460J	79	<10	1,900	5 6	1,000	6,700	0	7 5	5,200
6/27/2007	197 34	3373 80	3176 46	NA	NA	NA	NA	NA	<0 05J	<0 10J	<0 040*	<0 10	<0 050J	<0 00020	<0 050J	<0 050J	610J	310	<1 0	470J	93	<10	1,800	5 1	1,300	6,700	-1	7 6	4,900
12/11/2007	198 21	3373 80	3175 59	NA	NA	NA	NA	NA	0 01	0 02	<0 00018	<0 010	0 00	<0 00020	0 02	<0 00040	640J	290J	21J	540J	81	<10	1,900	5 5	1,200	7,400	1	7 3	4,500
3/26/2008	196 95	3373 80	3176 85	73	6,857	E	3 6	366	0 01	0 02	<0 00090	<0 010J	<0 00050	<0 00020	0 01	<0 0020	670J	310	10J	520J	86	<10	1,800	6 2	1,100	7,100	3	7 5	4,600
7/23/2008	197 11	3373 80	3176 69	70	6 649	E	7 3	-51	0 01	0 02	<0 00018	<0 010	<0 0001	<0 0002	0 01	<0 0004	700J	300J	10	500J	79	<10	1,700	5 2	1,200	6,700	4	7 5	4,600
9/13/2008	197 01	3373 80	3176 79	70	6 335	E	7 4	26	0 00J	0 019J	<0 0009*	<0 010	<0 0005J	<0 0002	0 010J	<0 002J	690J	300J	10	540J	86	<10	1,800	6 1	1,200	7,000	3	7 3	4,900
4/7/2009	196 73	3373 80	3177 07	70	6,421	E	7 4	-130	0 009J	0 018J	<0 0009*	<0 10J	<0 002J	<0 0002	0 010J	<0 002J	640	300	<10	530	80	<10	1,800	5 2	1,200	6,600	2	7 3	3,800
7/14/2009	196 62	3373 80	3177 18	70	6 428	E	7 0	68	0 01	0 02	<0 0009*	<0 10J	<0 002J	<0 0002	0 01	<0 002J	670	310	<10J	530	78	<10	1,900	6 3	1,200	6,900	1	7 5	4,400
10/6/2009	196 31	3373 80	3177 49	70	6,270	E	7 4	12	0 01	0 02	<0 0009*	<0 10J	<0 002J	<0 0002	0 02	<0 002J	700	340	<10J	570	83	<10	1,800	6 8	1,100	6,800	8	7 5	4,800
1/5/2010	196 35	3373 80	3177 45	70	6 106	E	7 4	-218	0 01	0 02	<0 0009*	<0 10J	0 00	<0 0002	0 02	<0 002J	670	300	10	490	83	<10	1,800	5 2	1,200	6,700	1	7 4	4,800
8/9/2010	196 27	3373 80	3177 53	71	6,708	E	4 0	313	0 01	0 02	<0 0009*	<0 10J	0 01	<0 0002	0 01	<0 002J	668	306	10 3J	512	96	<10	1,650	5 2	1,040	6 610	7	7 4	5,000
12/14/2010	196 05	3373 80	3177 75	70	6,416	E	7 2	-30	0 01	0 02	<0 0009*	<0 10J	0 00	<0 00015	0 01	<0 002J	684	309	<10J	545	79	<10	1,870	5 2	1,320	6,890	0	7 4	4,900
3/22/2011	196 06	3373 80	3177 74	70	6,353	E	7 2	49	0 01	0 02	<0 0009*	<0 10J	<0 002J	<0 00015	0 01	<0 002J	650	290	<10J	493	84	<10	1,870	5 3	1,160	6,850	-1	7 4	5,160 J
5/23/2011	196 09	3373 80	3177 71	70	6,387	E	7 2	53	0 01	0 02	<0 0009*	<0 10J	<0 002J	<0 00015	0 01	<0 002J	688	334	<10J	523	85	<10	1,670	5 8	1,140	6,820	7	7 4	5,060
8/22/2011	196 40	3373 80	3177 40	70	7,034	E	7 2	25	0 01	0 02	<0 0009*	<0 10J	0 01	<0 00015	0 01	<0 002J	887	320	<10J	512	82	<10	1,260	7 5	1,170	6,960	20	7 5	3,800
10/16/2011	196 58	3373 80	3177 22	71	6 815	E	7 2	21	0 01	0 02	<0 0009*	<0 10	<0 002J	<0 00015	0 01	<0 002J	741	322	<10J	496	80	<10	2,090	7 4	1,100	6,800	0	7 4	5,500
3/23/2012	196 75	3373 80	3177 05	70	6,942	E	7 2	-14	0 01	0 02	<0 0009*	<0 10J	<0 002J	<0 00015	0 01	<0 002J	698	295	No data	492	79	<10	1,500	6 9	1,270	7,010	7	7 5	4,700
6/12/2012	198 53	3373 80	3175 27	70	6,913	E	7 3	55	0 01	0 02	<0 0009*	<0 10J	<0 002J	<0 00015	0 02	<0 002J	584	279	<10J	452	76	<10	1,850	5 6	1,060	7,360	-3	7 3	9,800
9/11/2012	206 20	3373 80	3167 60	70	5 606	7 7	7 2	83	<0 01	0 03	<0 0025	<0 10J	<0 01	<0 00015	0 01	<0 01	501	243	<10J	369	87	<10	1,710	5 0	1,310	6,110	-12	7 4	2,900
12/13/2012	213 28	3373 80	3160 52	70	4,793	7 6	7 4	-56	<0 01J	0 02	<0 0025*	<0 10J	<0 01J	<0 00015	0 01	<0 01J	445	208	<10J	311	95	<10	1,340	4 1	823	6,040	-4	7 6	2,500
3/25/2013	218 80	3373 80	3154 90	70	5,409	E	NA	-81	<0 01J	0 03	<0 0025*	<0 10J	<0 01J	<0 00015	0 01	<0 01J	504	219	<10J	313	93	<10	1,150	4 4	879	5,590	4	7 5	3,900
6/11/2013	224 98	3373 80	3148 82	71	5 673	E	7 4	80	<0 01	0 03	<0 0025	<0 10J	<0 01J	<0 00015	0 01	<0 01	487	237	<10J	339	95	<20	1,400	4 4	944	6,040	-2	7 5	4,600
9/24/2013	223 35	3373 80	3150 45	70	6 638	E	7 3	22	<0 02J	0 02	<0 005*	<0 02J	<0 02J	<0 00015	<0 02J	<0 02J	565	263	<10J	374	87	<10	1,650	4 7	1,170	7,530	-4	7 4	4,700
12/12/2013	226 32	3373 80	3147 48	70	6,630	7 2	7 3	43	<0 01J	0 02	<0 0025*	<0 01J	<0 01J	<0 00015	0 02	<0 01J	594	265	<10J	352	82	<10	1,970	5 0	894	5,800	-6	7 5	4,300
3/26/2014	NA	3373 80	NA	70	7,883	E	7 4	-112	<0 05J	0 03	<0 005*	<0 02J	<0 02J	<0 00015	<0 02J	<0 02J	610	273	<10J	375	81	<10	1,840	5 2	847	7,030	-1	7 4	4,400 J
6/7/2014	NA	3373 80	NA	74	6 665	4 3	7 3	100	0 04	<0 01J	<0 01J	0 02	<0 01J	<0 0005	0 03	0 034J	545	292	15	439	72	<10	1,760	5 4	917	7,410	1	7 6	7,872
7/28/2014	NA	3373 80	NA	71	6,115	4 0	7 4	142	<0 01	0 03	<0 01	<0 01	<0 01	<0 0005	0 02	<0 01	725	296	<1 0	482	80	<10	1,810	4 8	832	7,190	59	7 2	6,840
11/11/2014	NA	3373 80	NA	67	7,013	6 1	7 2	27	<0 01	0 03	<0 01	0 03	<0 01	<0 0005	0 02	<0 01	762	329	5	421	78	<10	1,789	5 0	883	7,390	9	7 5	7,476
2/19/2015	NA	3373 80	NA	69	6,661	5 2	7 4	30	<0 01	0 02	<0 01	0 04	<0 01	<0 0005	0 03	<0 01	721	338	9	403	84	<10	1,499	5 2	890	8,670	13	7 7	7,890
5/12/2015	246 25	3373 80	3127 55	NA	NA	NA	NA	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8/11/2015	235 50	3373 80	3138 30	73	5,528	5 7	7 0	224	0 04	0 80	<0 01	0 25	0 03	<0 001	<0 25	<0 01	800	773	15	463	90	<10	3,500	4 9	797	6,530	3	7 2	6,880
12/1/2015	234 40	3373 80	3139 40	69	6,803	5 6	7 3	147	0 01	0 02	<0 01	0 03	<0 01	<0 001	0 02	<0 01	745	135	7	457	100	<10	1,800	5 0	822	7,280	-1	7 4	7,190
3/15/2016	231 80	3373 80	3142 00	70	7,279	5 6	7 2	54	<0 01	0 07	<0 01	0 03	<0 01	<0 001	0 03	<0 01	881	420	11	526	78	<10	1,999	3 4	2,124	7,860	0	7 7	7,644
4/25/2016	244 00	3373 80	3129 80	76	7,644	7 5	7 2	97	<0 01	0 06	<0 01	<0 01	<0 01	<0 001	0 02	<0 01	1,403	350	11	493	80	<10	2,500	33 4	1,897	6,450	4	7 3	7,150
7/25/2016	232 70	3373 80	3141 10	71	7,109	6 2	7 1	54	<0 01	<0 01	<0 01	<0 01	<0 01	0 000	<0 01	<0 01	802	257	4	344	80	<10	1,749	3 7	1,244	1,268	0	7 7	14,580
11/14/2016	232 00	3373 80	3141 80	70	7,157	5 7	6 9	79	<0 01	0 03	<0 01	0 02	<0 01	<0 001	0 03	<0 01	681	377	8	549	78	<10	1,700	4 0	889	6,460	14	7 2	7,200
1/23/2017	229 29	3373 80	3144 51	71	7,205	7 7	6 9	115	0 02	0 04	<0 01	<0 01	<0 01	<0 001	0 04	<0 01	649	329	7	420	78	<10	1,949	3 4	815	6,120	3	7 6	3,800
5/1/2017	225 34	3373 80	3148 46	71	7,121	6 0	7 2	36	<0 01	<0 01	<0 01	<0 01	<0 01	<0 001	<0 01	<0 01	681	343	10	495	84	<10	1,999	5 2	881	6,310	5	7 4	4,780
8/21/2017	224 63	3373 80	3149 17	71	7,227	6 0	7 1	62	<0 01	<0 01	<0 01	<0 01	<0 01	<0 001	<0 01	<0 01	711	319	9	464	78	<10	1,899	1 6	998	6,211	-4	8 0	4,910
11/13/2017	223 84	3373 80	3149 96	71	7,474	5 7	6 9	65	<0 01	<0 01	<0 01	<0 01	<0 01	<0 001	<0 01	<0 01	721	383	10	559	96	<10	1,899	3 1	877	6,370	11	7 3	4,460
11/13/2017(dup)									<0 01	<0 01	<0 01	<0 01	<0 01	<0 001	<0 01	<0 01	711	356	11	530	78	<10	1,799	2 8	862	6,500	11	6 9	3,900
2/5/2018	223 59	3373 80	3150 21	70	7,163	6 1	6 6	78	<0 01	<0 01	<0 01	<0 01	<0 01	<0 001	<0 01	<0 01	741	316	10	459	82	<10	1,999	<0 3	880	7,610	5	7 4	4,320

C-108 - Item XI

Groundwater Basins - Water Column / Depth to Groundwater



The subject well is located within the Capitan Basin.

Fresh water in the area is generally available from the Rustler and overlying, localized occurrences of Dewey Lake or Quaternary deposits. State Engineer's records show water wells in 21S-29E with an average depth to water at 241 feet.

There are 6 water or monitor wells located within one mile of the proposed SWD. Intrepid's monitoring and analyses reports for 2 of the wells is included.

SOS Consulting, LLC

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.2
Reviewed 10/02/2018

C-108 ITEM XIII – PROOF OF NOTIFICATION

IDENTIFICATION AND NOTIFICATION OF INTERESTED PARTIES

Exhibits for Section

Affected Parties Map

List of Interested Parties

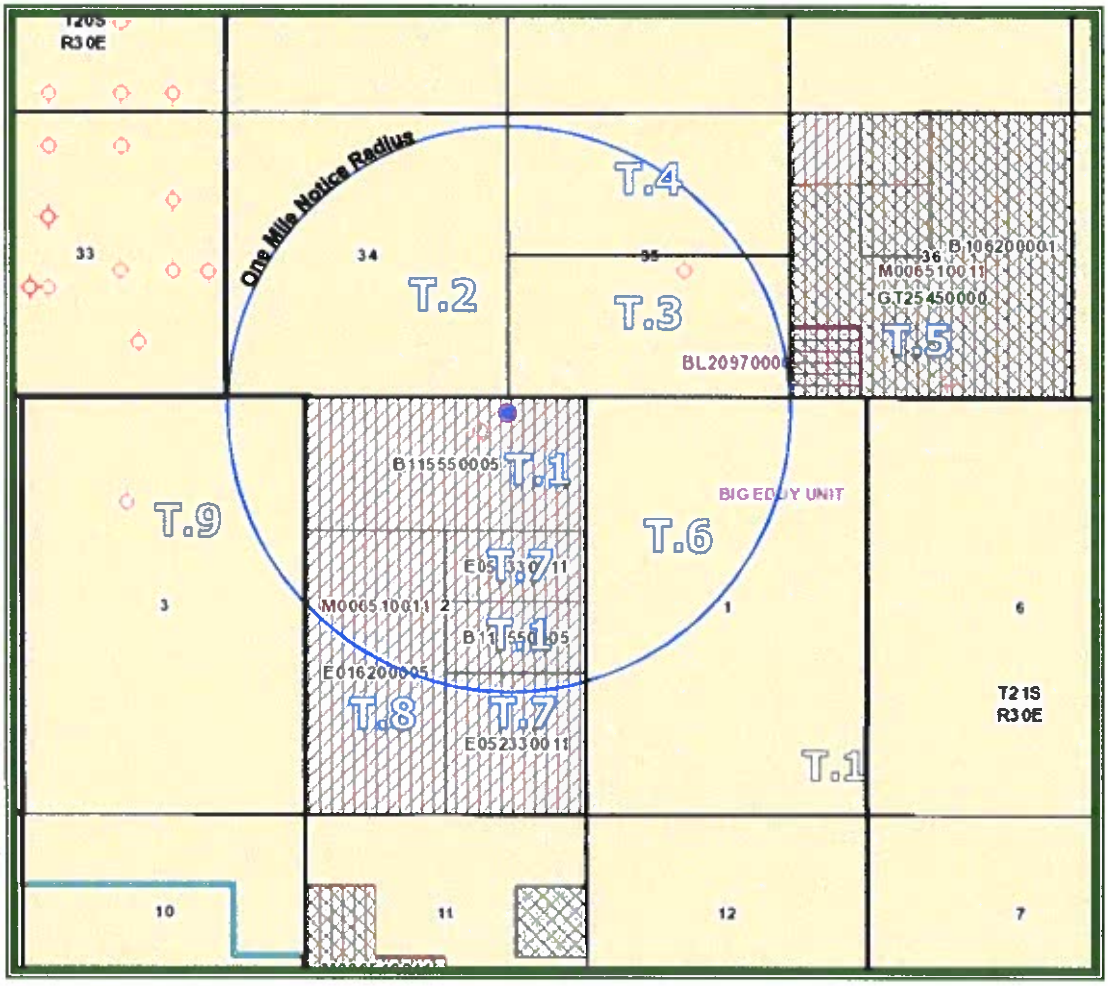
Notification Letter to Interested Parties

Proof of Certified Mailing

Published Legal Notice

Intrepid SWD No.2 – Affected Parties Plat

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



INTREPID
Essential Minerals for Success

LEGEND

T.1 – SLO-B1-1155-0005; Oxy USA WTP, LP

T.2 – BLM NMLC-0066156; CTV OG NM, others

T.3 – BLM NMNM-0006789; CTV OG NM, others

T.4 – BLM NMLC-0069227; CTV OG NM, others

T.5 – SLO-B1-0062-0001; Oxy USA WTP, LP

T.6 – BLM NMNM-0006745; Oxy USA WTP, LP

T.7 – SLO-E0-5233-011; Oxy USA WTP, LP

T.8 – BLM NMNM-0542015; Chevron USA

T.9 – BLM NMNM-0003926; CTV OG NM, others

SOS Consulting, LLC

C-108 ITEM XIII – PROOF OF NOTIFICATION
AFFECTED PARTIES LIST

SOS Consulting is providing electronic delivery of C-108 applications.
ALL APPLICABLE AFFECTED PARTIES ARE PROVIDED A LINK IN THE NOTICE LETTER TO A SECURE SOS/ CITRIX SHAREFILE® SITE TO VIEW AND DOWNLOAD A FULL COPY OF THE SUBJECT C-108 APPLICATION IN PDF FORMAT.

SURFACE OWNER

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

MINERALS LESSEES (All Notified via USPS Certified Mail)

State Leases B1-1155-0005; B1-0062-0001 (T.1, T.5 and T.7) and BLM Lease NMNM-0006745 (T.6 on plat.)
Lessee

1 OXY USA WTP, LP
P.O. Box 4294
Houston, TX 77210
Certified: 7018 0360 0001 8569 5111

BLM Leases NMLC-0066156; NMNM-006789; NMLC-0069227 (T.2, T.3 and T.4 on plat.)
Lessees

2 LMBI OG NM, LLC
CTV OG NM, LLC
SRBI OG NM, LLC
THRU LINE OG NM, LLC
KEYSTONE OG NM, LLC
201 Main Street, Ste.2700
Fort Worth, TX 76102
Certified: 7018 0360 0001 8569 5128

BLM Lease NMNM-110831; (T.4 on plat.)
Lessee

3 CHEVRON USA, INC.
6301 Deauville Blvd.
Midland, TX 79706
Certified: 7018 0360 0001 8569 5135

OFFSET MINERALS OWNER (Notified via USPS Certified Mail)

4 U.S. DEPARTMENT OF INTERIOR
Bureau of Land Management
Oil & Gas Division
620 E. Greene St.
Carlsbad, NM 88220
Certified: 7018 0360 0001 8569 5142

5 STATE OF NEW MEXICO
Oil, Gas and Minerals Division
310 Old Santa Fe Trail
Santa Fe, NM 87504
Certified: 7018 0360 0001 8569 5159

C-108 ITEM XIII – PROOF OF NOTIFICATION
AFFECTED 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 18, 2018

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

To Whom It May Concern:

You recently received notice for this application. Due to a survey error, the well spot was incorrectly reported - it failed to account for the distance across the NENE qtr/qtr. The correction moves the well spot to the west by that distance. This adjustment does not affect any of the project details or affected parties. New legal notice publication is also being made.
Thank you for your understanding.

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.2. 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 2, Township 21 South, Range 31 East in Eddy County, New Mexico.

The published notice states that the maximum interval will be from 13,530 feet to 15,475 feet.

Following is the notice published in the Artesia Daily Press, New Mexico on or about October 19, 2018.

LEGAL NOTICE

Intrepid Potash - New Mexico, LLC, 1001 17TH St., Ste.1050, 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.2, will be located 505.6' FNL and 1474.7' FEL, Section 2, Township 21 South, Range 29 East, Eddy County, New Mexico; approximately 17.5 miles east/northeast of Carlsbad, NM.

Produced water from area production will be commercially disposed into the Devonian, Silurian and Montoya formations at a maximum interval depth of 13,530 feet to 15,475 feet at a maximum surface pressure of 2706 psi and a rate limited only by such pressure. (Note: If the interval is contracted within the maximum depths, surface pressure will be adjusted to the standard gradient of 0.2 psi/ foot X the uppermost interval depth.)

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 is posted on the SOS Consulting ***ShareFile*** site and is available for immediate download.

Use the URL link: **https://sosconsulting.sharefile.com/d-s27e92ad56d34f0a8**

(Please Note: The ShareFile service is powered by Citrix Systems and is completely secure.*)

The link to this file will be active for 30 days from the date of this letter. Your company can access and download the file a maximum of five (5) times. (One copy may be downloaded and shared as needed amongst your company.)

Alternatively, you may call SOS Consulting, LLC at 903-488-9850, or email info@sosconsulting.us, and the same PDF file copy will be expedited to you via email.

Please use a subject like, **"Intrepid SWD Oct2018 PDF Copy Request"**.

Thank you for your attention in this matter.

Best regards,

Ben Stone, SOS Consulting, LLC
Agent for Intrepid Potash NM, LLC

Cc: Application File

SOS Consulting is committed to providing superior quality work using technology to assist clients and affected parties in obtaining the documentation required. SOS will continue to utilize methods which are less energy and resource intensive including, the reduction of paper copies.

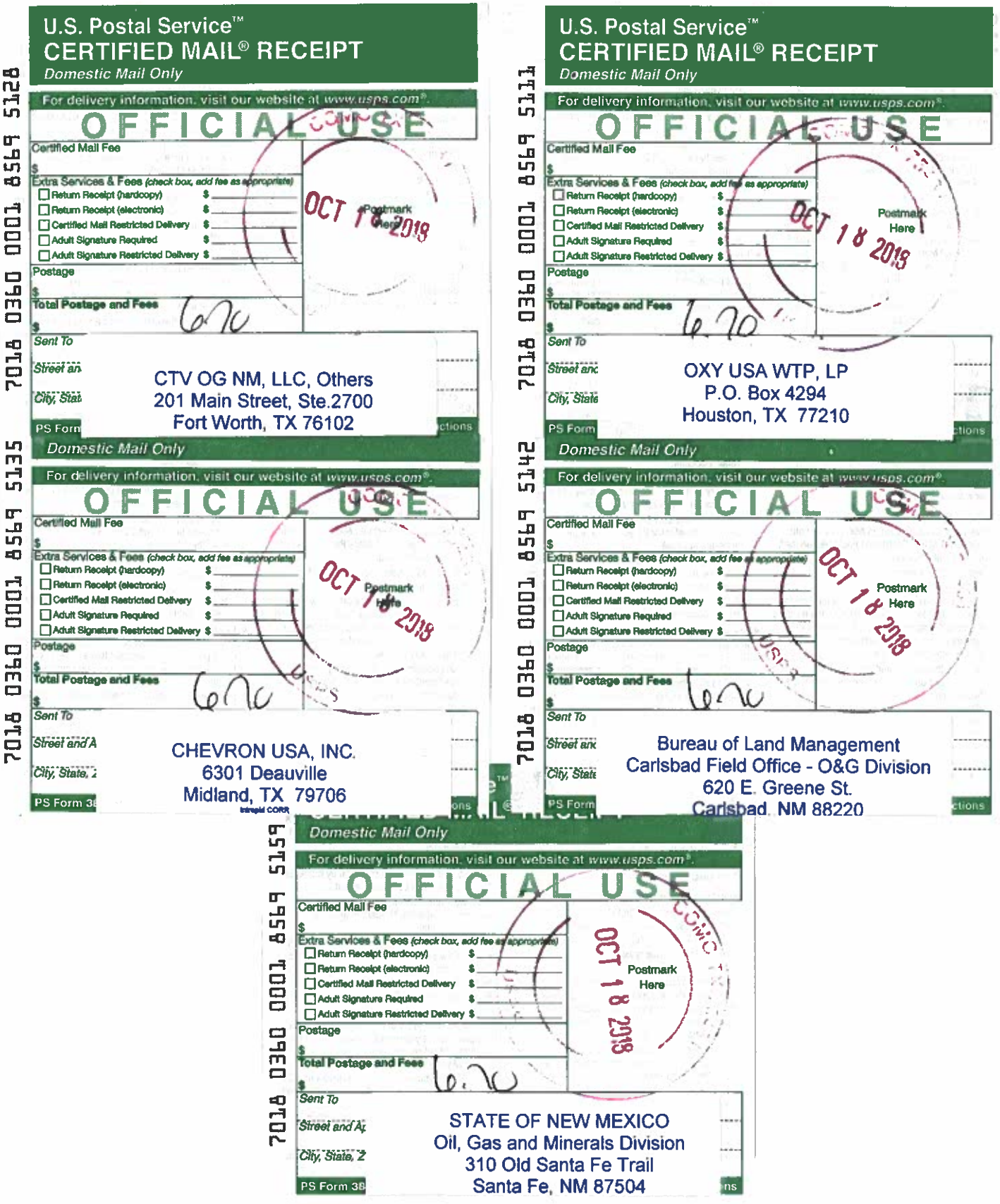
We hope you'll partner with us and appreciate these efforts.

* You will be asked for your email, name and company.
This will not be used by anyone except keeping track of the file downloads.
You will not be solicited by SOS or anyone else. Data is stored on Citrix Systems servers only.

citrix ShareFile

C-108 - Item XIV

Proof of Notice (Certified Mail Receipts)



U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee $

Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $
- Return Receipt (electronic) $
- Certified Mail Restricted Delivery $
- Adult Signature Required $
- Adult Signature Restricted Delivery $

Postage $

Total Postage and Fees $ 6.70

Postmark Here OCT 18 2018

7018 0360 0001 8569 5128

Sent To
Street and
City, State
CTV OG NM, LLC, Others
201 Main Street, Ste.2700
Fort Worth, TX 76102

PS Form

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee $

Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $
- Return Receipt (electronic) $
- Certified Mail Restricted Delivery $
- Adult Signature Required $
- Adult Signature Restricted Delivery $

Postage $

Total Postage and Fees $ 6.70

Postmark Here OCT 18 2018

7018 0360 0001 8569 5111

Sent To
Street and
City, State
OXY USA WTP, LP
P.O. Box 4294
Houston, TX 77210

PS Form

Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee $

Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $
- Return Receipt (electronic) $
- Certified Mail Restricted Delivery $
- Adult Signature Required $
- Adult Signature Restricted Delivery $

Postage $

Total Postage and Fees $ 6.70

Postmark Here OCT 18 2018

7018 0360 0001 8569 5135

Sent To
Street and
City, State,
CHEVRON USA, INC.
6301 Deauville
Midland, TX 79706

PS Form 38

Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee $

Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $
- Return Receipt (electronic) $
- Certified Mail Restricted Delivery $
- Adult Signature Required $
- Adult Signature Restricted Delivery $

Postage $

Total Postage and Fees $ 6.70

Postmark Here OCT 18 2018

7018 0360 0001 8569 5142

Sent To
Street and
City, State
Bureau of Land Management
Carlsbad Field Office - O&G Division
620 E. Greene St.
Carlsbad, NM 88220

PS Form

Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee $

Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $
- Return Receipt (electronic) $
- Certified Mail Restricted Delivery $
- Adult Signature Required $
- Adult Signature Restricted Delivery $

Postage $

Total Postage and Fees $ 6.70

Postmark Here OCT 18 2018

7018 0360 0001 8569 5159

Sent To
Street and
City, State, Z
STATE OF NEW MEXICO
Oil, Gas and Minerals Division
310 Old Santa Fe Trail
Santa Fe, NM 87504

PS Form 38

C-108 - Item XIV

Proof of Notice – Legal Notice
Newspaper of General Circulation

Legal Notice

LEGAL NOTICE
(Republished for Correction)

Due to a survey error, the well spot was incorrectly reported as 155' FEL. The survey failed to account for the distance across the first qtr/qtr (NENE) – this makes the true spot 1474.7' FEL as follows:

Intrepid Potash - New Mexico, LLC, 1001 17TH St., Ste.1050, 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.2, will be located 505.6' FNL and 1474.7' FEL, Section 2, Township 21 South, Range 29 East, Eddy County, New Mexico; approximately 17.5 miles east/northeast of Carlsbad, NM.

Produced water from area production will be commercially disposed into the Devonian, Silurian and Montoya formations at a maximum interval depth of 13,530 feet to 15,475 feet at a maximum surface pressure of 2706 psi and a rate limited only by such pressure. (Note: If the interval is contracted within the maximum depths, surface pressure will be adjusted to the standard gradient of 0.2 psi/ foot X the uppermost interval depth.)

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. 21, 2018 Legal No. 24876.

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.

McMillan, Michael, EMNRD

From: McMillan, Michael, EMNRD
Sent: Tuesday, October 23, 2018 1:18 PM
To: Ben Stone
Subject: Intrepid Potash New Mexico, LLC Intrepid SWD #2

Ben:
Your administrative SWD application for the Intrepid Potash New Mexico, LLC Intrepid SWD #2 has been suspended. Your application lacks an affidavit of publication.

In the future, if you know your application is incomplete, please wait to send the OCD an application until all of the required information is in the application.

Mike

Michael McMillan
1220 South St. Francis
Santa Fe, New Mexico
505-476-3448
Michael.mcmillan@state.nm.us

McMillan, Michael, EMNRD

From: ben@sosconsulting.us
Sent: Tuesday, October 23, 2018 2:07 PM
To: McMillan, Michael, EMNRD
Subject: [EXT] RE: Intrepid Potash New Mexico, LLC Intrepid SWD #2
Attachments: Intrepid#2_AFFIDAVIT.pdf

Here you go Mike – I'll start waiting for these in the future before I submit the app.

Thanks,
Ben

From: McMillan, Michael, EMNRD <Michael.McMillan@state.nm.us>
Sent: Tuesday, October 23, 2018 2:18 PM
To: Ben Stone <ben@sosconsulting.us>
Subject: Intrepid Potash New Mexico, LLC Intrepid SWD #2

Ben:
Your administrative SWD application for the Intrepid Potash New Mexico, LLC Intrepid SWD #2 has been suspended. Your application lacks an affidavit of publication.

In the future, if you know your application is incomplete, please wait to send the OCD an application until all of the required information is in the application.

Mike

Michael McMillan
1220 South St. Francis
Santa Fe, New Mexico
505-476-3448
Michael.mcmillan@state.nm.us

Affidavit of Publication

No. 24876

State of New Mexico

County of Eddy:

Danny Scott

being duly sworn sayes that he 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 21, 2018
Second Publication	
Third Publication	
Fourth Publication	
Fifth Publication	
Sixth Publication	
Seventh Publication	

Subscribed and sworn before me this

22nd day of October 2018

OFFICIAL SEAL
Latisha Romine
NOTARY PUBLIC-STATE OF NEW MEXICO
My commission expires: 5/12/2019

Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

Legal Notice

LEGAL NOTICE
(Republished for Correction)

Due to a survey error, the well spot was incorrectly reported as 155' FEL. The survey failed to account for the distance across the first qtr/qtr (NENE) – this makes the true spot 1474.7' FEL as follows:

Intrepid Potash - New Mexico, LLC, 1001 17TH St., Ste.1050, 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.2, will be located 505.6' FNL and 1474.7' FEL, Section 2, Township 21 South, Range 29 East, Eddy County, New Mexico; approximately 17.5 miles east/northeast of Carlsbad, NM.

Produced water from area production will be commercially disposed into the Devonian, Silurian and Montoya formations at a maximum interval depth of 13,530 feet to 15,475 feet at a maximum surface pressure of 2706 psi and a rate limited only by such pressure. (Note: If the interval is contracted within the maximum depths, surface pressure will be adjusted to the standard gradient of 0.2 psi/ foot X the uppermost interval depth.)

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. 21, 2018 Legal No. 24876.