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NEW MEXICO OIL CONSERV	ATION DIVISION
- Geological & Engineerin	g Bureau –
1220 South St. Francis Drive, San	ta Fe, NM 87505
ADMINISTRATIVE APPLICAT	
THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLIC REGULATIONS WHICH REQUIRE PROCESSING AT TH	
Applicant: Percussion Petroleum, LLC	OGRID Number: 371755
Well Name: Ross Ranch 22 No.1	API:30-015-27457
Proposed: SWD; Cisco-Canyon	Pool Code: 96186
SUBMIT ACCURATE AND COMPLETE INFORMATION REQUINDICATED BELO	OW SUD 1843 A)
A. Location – Spacing Unit – Simultaneous Dedication  NSL NSP(PROJECT AREA)	SP(proration unit)
[ II ] Injection – Disposal – Pressure Increase – Enh	FOR OCD ONLY  Y.  Notice Complete  Application  Content  Complete
3) CERTIFICATION: I hereby certify that the information sundaministrative approval is accurate and complete to understand that no action will be taken on this applic notifications are submitted to the Division.	the best of my knowledge. I also
Note: Statement must be completed by an individual with	h managerial and/or supervisory capacity.
	11/02/2018
Ben Stone	Date
Print or Type Name	
	903-488-9850
	Phone Number
Sen Jone	ben@sosconsulting.us

e-mail Address

Signature

## Old & Gas Accounting - Accounting - Account on Processing Assistance - Old field feeting of Assistance

November 2, 2018

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

Attn: Ms. Heather Riley, Director

Re: Application of Percussion Petroleum, LLC to permit for salt water disposal the Ross Ranch 22 Well No.1, located in Section 22, Township 19 South, Range 25 East, NMPM, Eddy County, New Mexico.

Dear Ms. Riley,

Please find the enclosed form C-108 Application for Authority to Inject, supporting the above-referenced request for salt water disposal. Percussion selected this well for private disposal of produced water coming from their operations in the area.

Percussion Petroleum seeks to optimize efficiency, both economically and operationally, of its operations 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 October 28, 2018 in the Artesia Daily Press and all offset operators and other interested parties have been notified individually. The legal notice affidavit is included herein. This application also includes a wellbore schematic, area of review maps, affected party plat and other required information for a complete Form C-108. The well is located on private land and minerals. Within the one-half mile radius, all land and mineral are private.

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 Percussion Petroleum, 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: Percussion Petroleum Operating, LLC
ADDRESS: 919 Milam, Ste.2475, Houston, TX 77002

, ...., , ...., , ...., , ...., , ...., , ...., , ...., , ...., , ...., , ....,

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 9 Wells in the subject AOR which penetrate the target interval, 0 P&A. The data includes a description of each well's type, construction, date drilled, location, depth, and a schematic of any P&A'd well illustrating all plugging detail.
- 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:
  - 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 CISCO and CANYON formations 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). Existing well logs are on file with OCD.
- \*XI. There are 2 domestic water wells within one mile of the proposed salt water disposal well. Analysis will be forwarded.
- 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 2 offset lessees, mineral owners or operators within ½ mile; Well location and minerals are PRIVATE and NO fed or state leases offsetting.
- 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 Percussion Petroleum Operating, LLC
SIGNATURE: DATE: 11/02/2018

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:

## 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:

- (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.

# C-108 - Items III, IV, V

## **Item III - Subject Well Data**

Wellbore Diagram - CURRENT Wellbore Diagram - PROPOSED

The well is the last remaining Upper Penn completion in the area (all other producing wells have been recompleted in the Glorieta/ Yeso).

This well has not produced since November 2017.

## Item IV - Tabulation of AOR Wells

Tabulation includes all construction data for all wells within a one-half mile radius.

9 wells penetrate the proposed interval; 0 P&A.

## Item V – Area of Review Maps

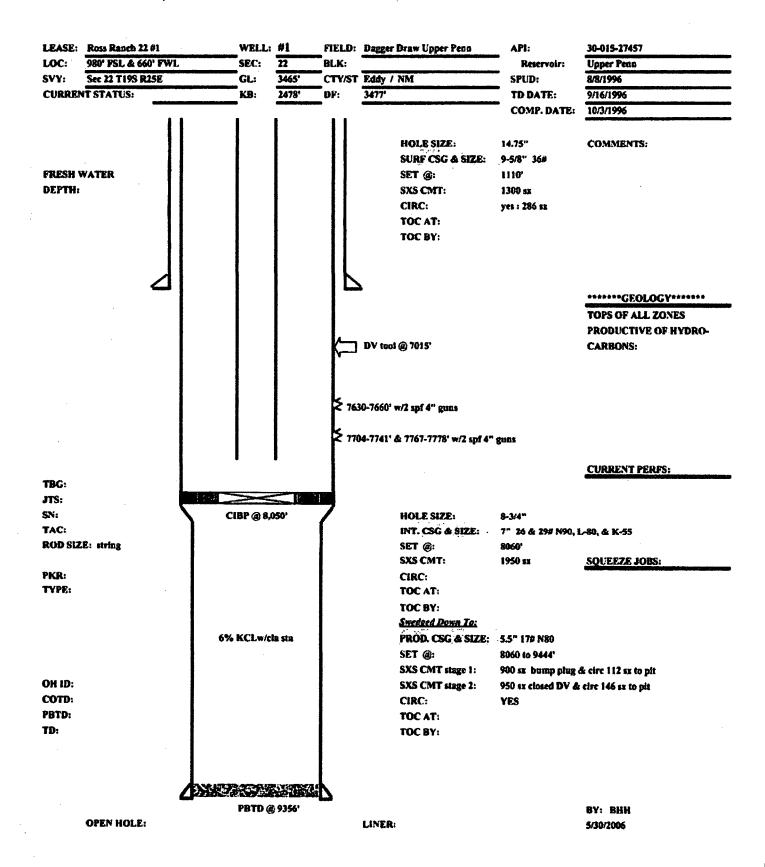
- 1. Two Mile AOR Map with One-Mile Fresh Water Well Radius
  - 2. One-Half Mile AOR Map

All Above Exhibits follow this page.

#### **CURRENT WELLBORE DIAGRAM**

Note: The Ross Ranch 22 No.1 is the last remaining completion in the Dagger Draw; Upper Penn, North pool. All area wells have been plugged back and recompleted in the Glorieta/ Yate interval.

This well has not produced since November 2017.



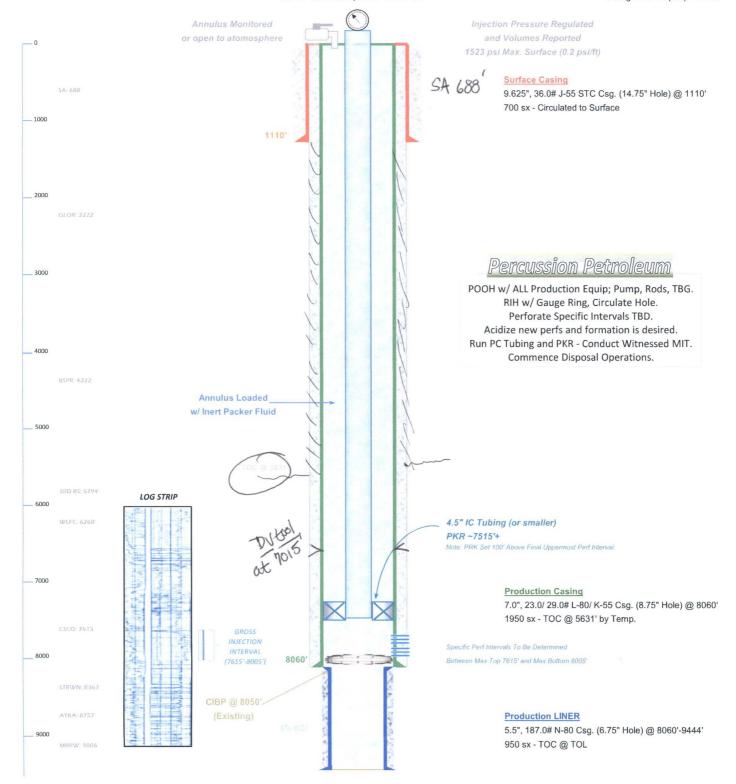


# WELL SCHEMATIC - PROPOSED Ross Ranch 22 SWD Well No.1

#### SWD; Cisco-Canyon (96186)

**API 30-015-27457** 1980' FNL & 660' FWL, SEC. 22-T19S-R25E EDDY COUNTY, NEW MEXICO

Spud Date: 8/08/1996 Config SWD Dt (Est): ~12/15/:



DTD @ 9445'



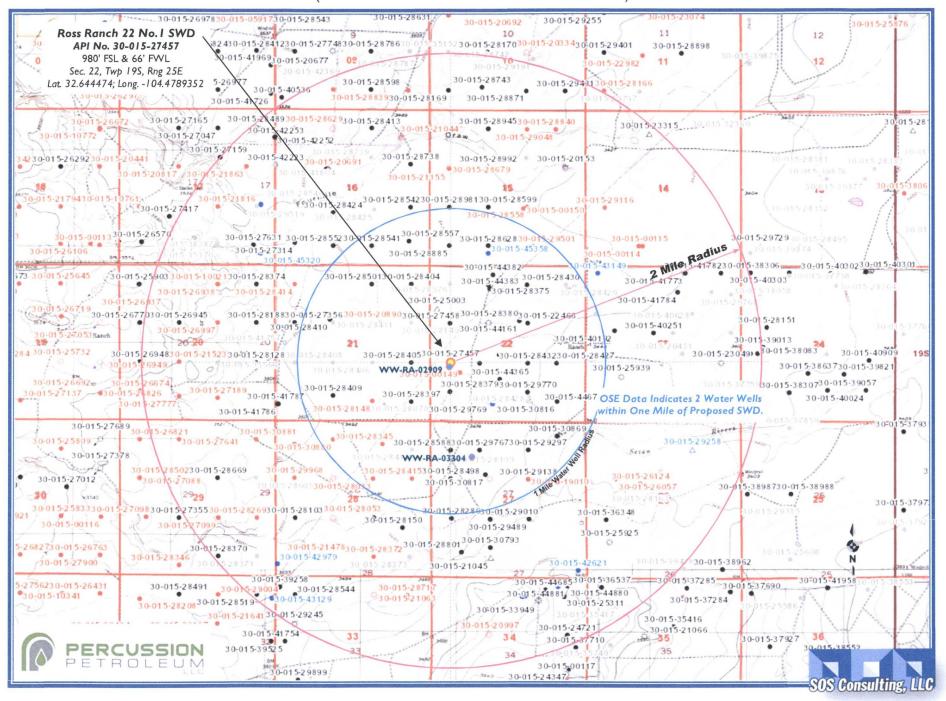
## Form C-108 Item VI - Tabulation of AOR Wells

	Top of Proposed CISCO Interval 7615'					9 We	ells Penetrate Proposed	Interval.	
Subject Well									
30-015-27457	[371755] PERCUSSION PETROLEUM OPERATING, LLC	ROSS RANCH 22	#001	Gas	Private	Active	L-22-195-25E	9444'	
							See attached CURF	RENT and PROPOSED We	llbore Diagrams
Section 22 Wells		SPACE COLUMN TO SERVICE SPACE AND ASSESSMENT OF SERVICE SPACE		in the same of the					
30-015-27458	[371755] PERCUSSION PETROLEUM OPERATING, LLC	ROSS RANCH 22	#002	Oil	Private	Active	E-22-195-25E	8100'	20001 2020
20 045 25002	GLOR/YESO Perfs: 2192'-2200' - HZTL TVD 2400'; Lower Ho							TD; 30 sx 5500'-5321'; 30 <b>8128'</b>	0 sx 3000'-2820'
30-015-25003	[370776] TACTICAL OIL & GAS, LLC	DAGGER DRAW SWD	#001	SWD	Private	Inactive (70)	E-22-19S-25E		C O COALL COL
20.015.38380		erfs: 7806'-7998'; 13.375" (17.5"						8190'	C @ 601 by CBL
30-015-28380	[371755] PERCUSSION PETROLEUM OPERATING, LLC	ROSS RANCH 22	#004	Gas	Private	Active	F-22-19S-25E		100 101
20 045 20422	GLOR/YESO Perfs: 2330'-3038'; 9.625" (14.75	" hole) @ 1112' w/ 1100 sx circ; / B & B	".0" (8.75" hole) @ #009				J-22-19S-25E	8280'	ana Mua Below.
30-015-28432	[371755] PERCUSSION PETROLEUM OPERATING, LLC			Oil	Private	Active			
20.045.44265	GLOR/YESO Perfs: 2308'-2752'; 9.625" (							' Cmt. (Additional Plugs of 7998' HZ	and Mud Below.
30-015-44365	[371755] PERCUSSION PETROLEUM OPERATING, LLC	GOODMAN 22	#006H	Oil	Private	Active	K-22-19S-25E		7/2 25571 70001
20.015.44256	[374755] DEDCUCCION DETROLEUM ODERATING LLC	COOPMAN 33	400411	0.11	Delicate		NETRATE - HORIZONTAL		VD 2667-2889
30-015-44366	[371755] PERCUSSION PETROLEUM OPERATING, LLC	GOODMAN 22	#004H	Oil	Private	Active	K-22-19S-25E	8033' HZ	5.40 2.70.41 202.41
20 045 20270	[274755] DEDCUSSION DETROLEURA OREDATING LLC	DOCC DANCH 22	#007	011	Deliver		NETRATE - HORIZONTAL	8225'	VD 2704 -2834
30-015-28378	[371755] PERCUSSION PETROLEUM OPERATING, LLC	ROSS RANCH 22	#007	Oil	Private	Active	K-22-195-25E		d a d d D l
30-015-00149	GLOR/YESO Perfs: 2276'-3188'; 9.62. [214263] PRE-ONGARD WELL OPERATOR	5" (14.75" hole) @ 1110' w/ 1200 PRE-ONGARD WELL	sx circ; 7.0" (8.75) #001	o" noie) @ 8 Oil	3225' W/ 1555 SX,	P&A-R	L-22-195-25E	1200'	2/4/1941
30-013-00149	[214263] PRE-ONGARD WELL OPERATOR	PRE-UNGARD WELL	#001	Oil		POLA-R	F-22-193-23E		NOT PENETRATE
30-015-28379	[371755] PERCUSSION PETROLEUM OPERATING, LLC	ROSS RANCH 22	#008	Oil	Private	Active	M-22-19S-25E	8120'	VUI PENEIKAIE
30-013-20379									and Mud Palou
30-015-29769	GLOR/YESO Perfs: 2280'-2952'; 9.6. [371755] PERCUSSION PETROLEUM OPERATING, LLC	ROSS RANCH 22	#006A	Oil	Private	Active	N-22-19S-25E	8150'	una wida below.
30-013-29/09	GLOR/YESO Perfs: 2292'-2957'; 9.625" (14.75'								and Mud Palou
30-015-44746	[371755] PERCUSSION PETROLEUM OPERATING, LLC	GOODMAN 22	#005H	0il	Private	New	N-22-19S-25E	0' HZ	und widd below.
30 013 44740	(371733) TERCOSSION TERROLEON OF ERATING, EEC	OOODIVIAIV 22	1100311	Oil	111000		OT PENETRATE - HORIZO		A/ NOT DRILLED
30-015-44747	[371755] PERCUSSION PETROLEUM OPERATING, LLC	GOODMAN 22	#007H	Oil	Private	New	N-22-19S-25E	0' HZ	IV, NOT DITTLLED
30 023 44,47	(3) 2) 33   TERCOSSION   ETROLEON OF ERATING, EEC	GOODWING LL	400711	Oli	111000		OT PENETRATE - HORIZO		N NOT DRILLED
						DOLSN	OT FENETRATE - HORIZO	WIAL CONFELTION, WE	N, NOT DITLLED
30-015-28405	[25575] EOG Y RESOURCES, INC.	PATRIOT AIZ	#006	Oil	Private	Active	I-21-19S-25E	8288'	
	GLOR/YESO Perfs: 2530'-2664'; 9.625" (14.75" hole) @ 1								and Mud Relow
30-015-28397	[25575] EOG Y RESOURCES, INC.	CUTTER APC	#001	Oil	Private	Active	P-21-19S-25E	8300'	and wide below.
	GLOR/YESO Perfs: 2350'-2750'; 9.625" (14.75" hole,								and Mud Below
	1100	C 2200 11, 2000 31 cmc, 7.0 [6.	. 5 11010/ @ 0300		y Sile. 10 Suij. F	zprient oper 55	J. J	, , , , , as a long i lags	and below.
30-015-45252	[371755] PERCUSSION PETROLEUM OPERATING, LLC	ROSS RANCH 22	#009H	Oil	Private	New	D-27-19S-25E	4000' HZ-PILOT	
	The section of the se	The state of the s					TRATE - HORIZONTAL CO		



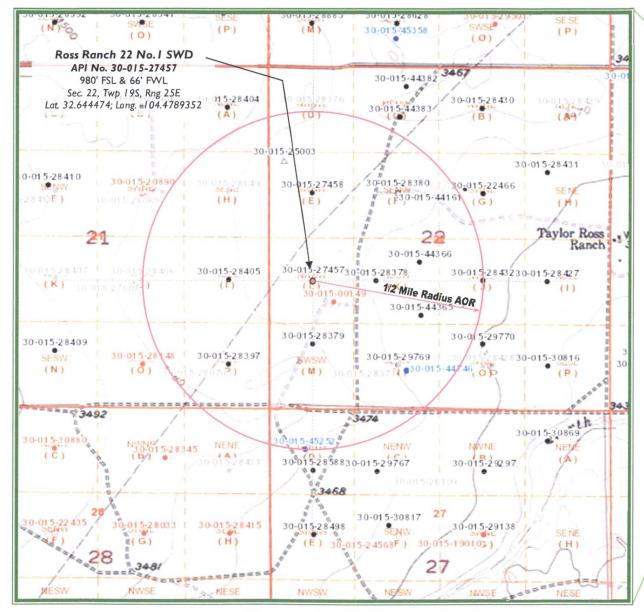
# Ross Ranch 22 No.1 - Area of Review / 2 Miles

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



# Ross Ranch 22 No.1 SWD Well No.1 - Area of Review / Overview Map

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



14.7 miles S/SW of Artesia, NM





Eddy County, New Mexico

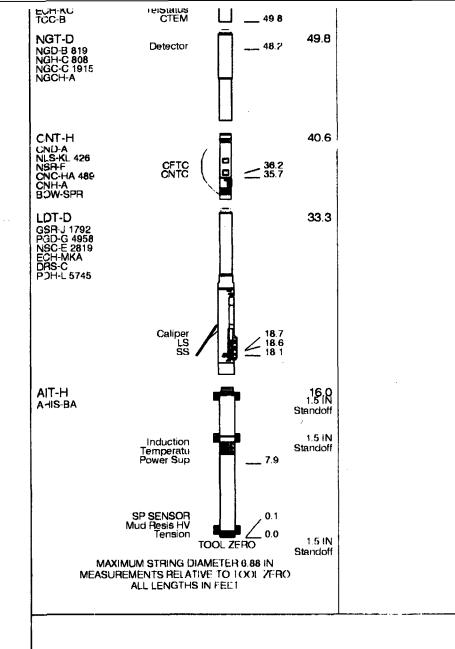


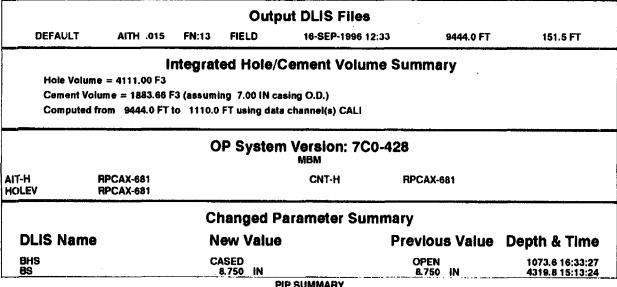
# C-108 ITEM X - LOGS and AVAILABLE TEST DATA

A log strip from subject well is attached.

**LOG STRIP FOLLOWS** 

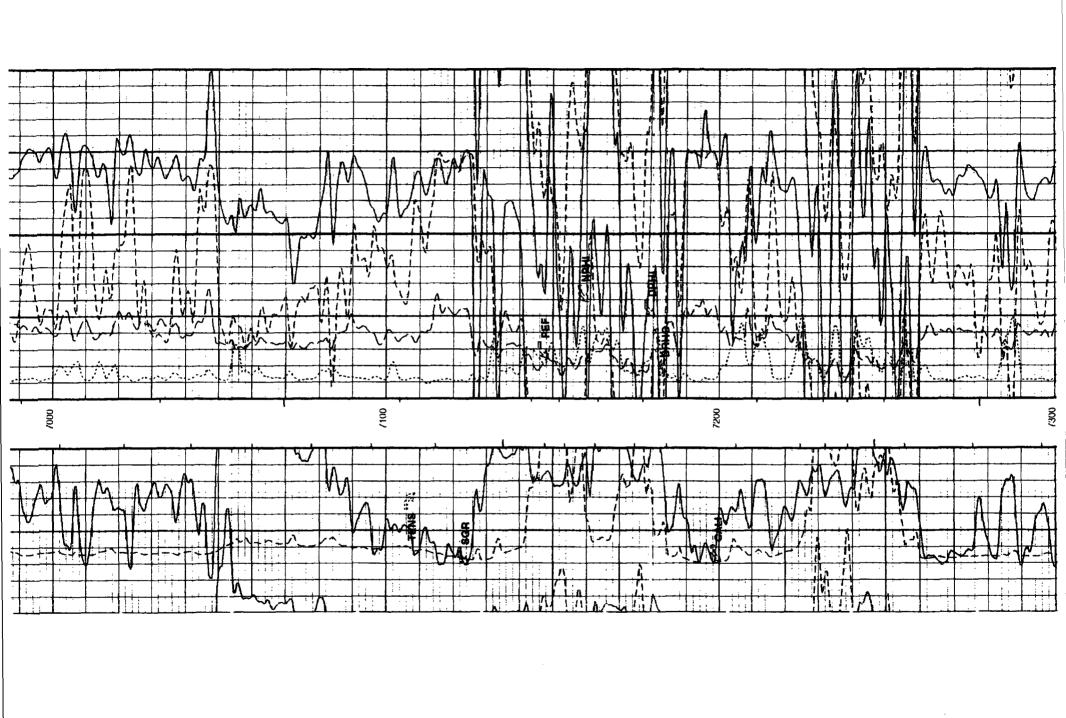
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		•		(1)		(ii)	(a)	(a)							(cr)							-	OWNSTIT HANGE			13.0 ← above Perm. Datum		3405 5	D.F 3477 F	G.L 3465 F			etural Gamera-Ray	ompensated Neutron			CONTRAIN MAN	Now Marying		Penn) North				ng Company
Recorded By Witnessed By	Unit Number Location		Tempera	(i) RM (i) MRT RMF (i) MRT	Source RMF RMC	RMC (a) Measured Temperature	FMF (v) Measured Temperature	RM (v) Measured Temperature		SS .		Type Fluid in Hole	Bit Size	Casing Schlumberger	Casing Driller Size (a) Depth	op Log Interval	Bottom Log Interval	Schlumberger Depth	Depth Uniter		in Nimber	-	ក់ កី			atum					nie e e e e e e e e e e e e e e e e e e		-		<del></del>					• • •				
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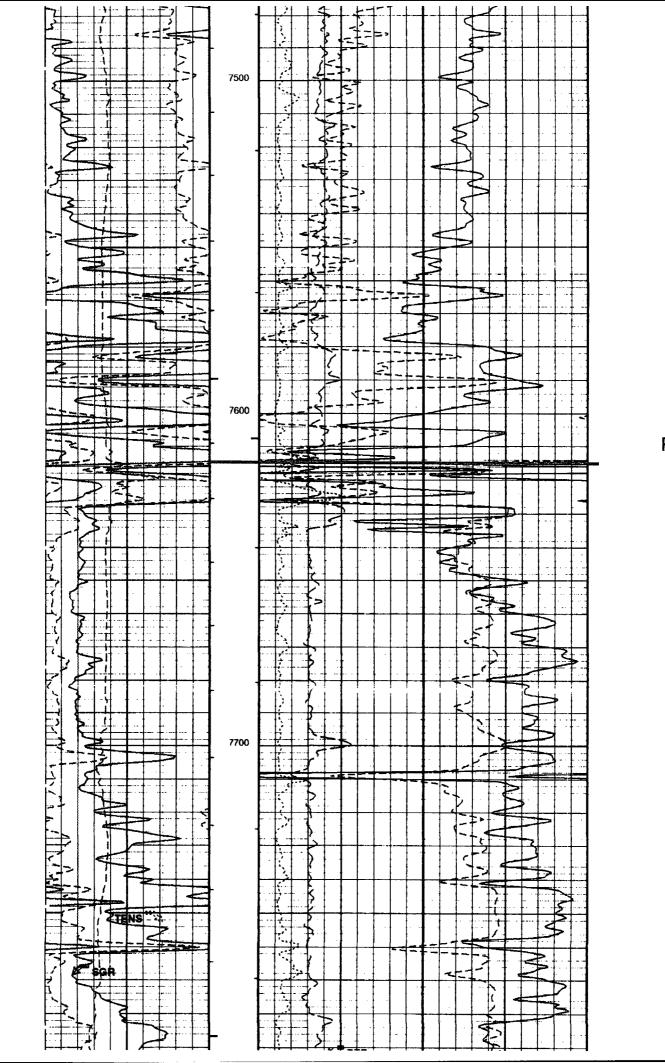




#### PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 10 F3
  - Integrated Hole Volume Major Pip Every 100 F3
    - Integrated Cement Volume Minor Pip Every 10 F3
    - Integrated Cement Volume Major Pip Every 100 F3





PROP TOF INJEC INTE 76

PROF BOTT INJE INTE 80

## C-108 ITEM VII - PROPOSED OPERATION

#### Ross Ranch 22 SWD No.1

### **Private Use 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 not to interfere with well operations. 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

POOH w/ ALL Production Equipment; Pump, Rods and tubing. Run in hole w/ gauge ring and circulate hole. Perforate Specific Intervals TBD. Acidize new perfs and formation is desired. Run PC Tubing and PKR - Conduct Witnessed MIT. Commence Disposal Operations.

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 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 Ross Ranch 22 SWD well will be for Percussion's area production from Gloieta/Yeso wells.

The SWD facility will not be fenced. Primary water transportation will be via pipeline but offloading hookups will be available so that trucks may access for load disposal in needed.

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 5,000 bpd and an average of 3,500 bpd at a maximum surface injection pressure of 1523 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.

# C-108 ITEM VII - PRODUCED WATER ANAYLSES

# **Item VII.4 – Water Analysis of Source Zone Water**

Glorieta/ Yeso Bone Spring

Item VII.5 - Water Analysis of Disposal Zone Water

Cisco/ Canyon

Water Analyses follow this page.

## **SOURCE ZONE**

GLO/	YESO									Lab ID			
										Sample	. ID		1146
	API No	300152								Sample			1140
1	Well Name	PLATT	PA			009				Gampie	110		
	Location	ULSTR	26 18	S	26	E		Lat / Long	32.71216	-104	1.35742		
			330 S	\$	990	W				County	Eddy		
	Operator	(when s	ampled)	Ya	ates Pe	etroleum (	Corp.						
			Field	A٦	<b>FOKA</b>					Unit M			
	San	nple Date	•	8/-	4/1984	ļ	Analys	sis Date					
			Sample	Sour	re Wa	llhead			Donth /	if known)			
			Water			duced Wa	ater		Depti (	ii Kilowii)			
	ph			•		7.5		-1111-i		1			
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	ph_ter	-						hardnes	ss_as_caco3	_mgL			
	specifi	icgravity						hardnes	ss_mgL			1800	
	specifi	icgravity_	temp_F			_	\	resistivi	ty_ohm_cm				
	tds_m	gL				120382	/	resistivi	ty_ohm_cm_	temp_			
	tds_m	gL_180C	;					conduct	tivity				
	chlorid	le_mgL				113000		conduct	tivity_temp_F	:			
	sodiun	n_mgL				71415		carbona	ite_mgL			0	
	calciur	m_mgL				2560		bicarbo	nate_mgL			476	
	iron_m	ngL				0		sulfate_	mgL		:	2001	,
	barium	_mgL						hydroxid	de_mgL				
	magne	esium_m	gL			0		h2s_mg	jL			0	
	potass	ium_mgl	L					co2_mg	<b>j</b> L				
	stronti	um_mgL						o2_mgl					
		anese_m	aL					anionre					
	90		<b>-</b> -					a none					

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



## **SOURCE ZONE**

GI O	/YESO										
GLU	// IL30								Lab iD		
	API No	3001524	1619						Sample	e ID	1207
	Well Name	PLATT I	PA			00	3		Sample	No No	
	Location	ULSTR	26	18	S 26	E	Lat / Long	32.71245	-104	1.35329	
		4	430	s	2260	w	<del>.</del>		County	Eddy	
	Operator	(when sa	ampled	i)	Yates	Petroleum	Corporation				
			Fiel	d	ATOK	Ą			Unit N		
	San	iple Date			1/19/19	85	Analysis Date				
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	calciur	n_mgL				4160	bicarbo	nate_mgL		104	
	iron_m	gL				0	sulfate_	mgL		3720	
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(Produced water data courtesy of NMT Octane NM WAIDS database.)

anionremarks

manganese\_mgL



## **SOURCE ZONE**

BONE S	SPRING	}								Lab ID		
										Sample	: ID	5847
API		300152								Sample		
Wel	l Name	BIG E	DDY UN	Ш		012				•		
	Location	ULSTR		20	S 31	E	Lat /	Long	32,56399	-103	3.87994	
			660	N	660	W				County	Eddy	
	Operator	(when s	sample	d)	MALLO	ON OIL CO	MPANY					
			Fiel	d	BIG E	YOOY				Unit D		
	San	nple Dat	е		8/27/19	99	Analysis Da	te	8/	/31/1999		
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	calciur	n_mgL				5625	b	icarbo	nate_mgL		13.725	
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(Produced water data courtesy of NMT Octane NM WAIDS database.)



## **DISPOSAL ZONE**

CIS									Lab ID		
	API No	300152	6468						Sample	· ID	5945
	Well Name	JOHN A	AGU			002			Sample	No	
	Location	ULSTR	14	20	S 24	E	Lat / Long	32.57883	-104	1.55197	
			660	N	660	E	•		County	Eddy	
	Operator	(when sa	ampled)	l							
			Fiek	i	DAGGE	R DRAW			Unit A		
	San	nple Date			5/13/200	0	Analysis Date				
			Sam	nla C	Source			Donth (	if known)	•	
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	specifi	cgravity_	temp_F		•		resistivi	ty_ohm_cm			
	tds_m	gL			(	(216236 )	resistivi	ty_ohm_cm_	temp_		
	tds_m	gL_180C					conduc	tivity			
	chlorid	e_mgL				53321	conduc	tivity_temp_F	ļ.		
	sodium	n_mgL					carbona	ate_mgL			
	calciun	n_mgL				4576	bicarbo	nate_mgL		7261	9
	iron_m	ıgL				1000	sulfate_	mgL		95	2
	barium	_mgL				0	hydroxid	de_mgL			
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	potass	ium_mgL					co2_m	jL			
	stronti	ım_mgL					o2_mgl	-			
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(Produced water data courtesy of NMT Octane NM WAIDS database.)



## C-108 - Item VIII

# **Geological Data**

The Cisco Formation (Upper Penn) is a gray micritic (fine grained) fossiliferous limestone with vugular porosity as well as dolomite. The reservoirs in this area are usually limited in size with up dip porosity loss due to shelf margin carbonate build up. The upper portion becomes very shaley and is not proposed for injection.

The [Pennsylvanian] Canyon formation consists of similarly mediumgrained carbonates, primarily dolomite and porous and permeable sandstone interbedded with shale and is generally 150 to 200 feet in thickness.

The combined zones offer some good porosity in the proposed injection interval located from 7615 feet to 8005 feet with some very good porosity interspersed throughout the overall interval.

The Cisco is overlain by the Wolfcamp and the Canyon is underlain by the Strawn and Atoka. (See Pool Map and Data exhibit included.)

Fresh water in the area is generally available from the karstic San Andres limestone formation which is a prime example of an artesian recharged aquifer. Based on State Engineer's records for water wells in Sections 22-27, Twp 19S, Rng 25E, groundwater is found from 40 feet to 220 feet, average depth 102 feet.

There is 3 water wells located within one mile of the proposed SWD. One sample analysis is included in this application.

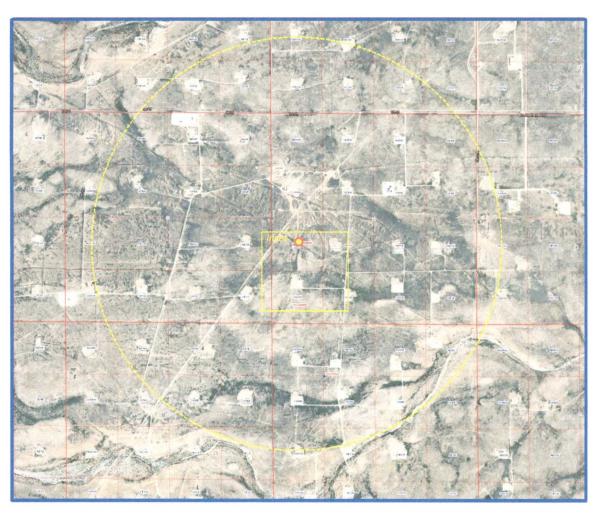
# C-108 Item XI

## Water Wells Within One Mile

# Ross Ranch SWD No.1 - Water Well Locator Map

There are 3 water wells/ PODs within a one-mile radius of the proposed SWD.

Inset View is displayed on next page for closest water well identification.



Data from NM Office of the State Engineer displayed in OSE-GIS System.



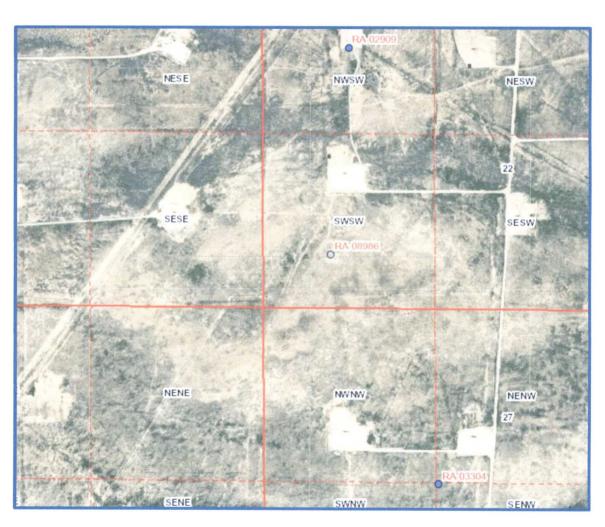
# C-108 Item XI

## Water Wells Within One Mile

# Ross Ranch SWD No.1 - Water Well Locator Map

# **Inset View Display**

for closest water well identification.

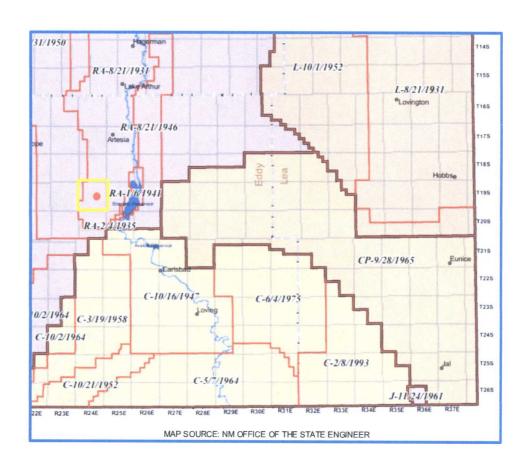


Data from NM Office of the State Engineer displayed in OSE-GIS System.



## C-108 - Item XI

## **Groundwater Basins - Water Column / Depth to Groundwater**



The subject well is located within the Roswell Artesian Basin.

Fresh water in the area is generally available from the karstic San Andres limestone formation which is a prime example of an artesian recharged aquifer.

State Engineer's records show there is fresh water wells in the area with an depth of 200 feet and average depth to water at 175 feet.

There are 3 water wells located within one mile of the proposed SWD. Samples will be taken of at least one and analysis forwarded when available.





### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### Analytical Results For:

PERCUSSION PETROLEUM JERRY MATHEWS 919 MILAM , STE 2475 HOUSTON TX, 77002 Fax To:

Received: Reported: 11/05/2018

11/07/2018

Project Name: Project Number: FRESH WATER WELLS ROSS RANCH 22 SWD

Project Location:

EDDY CO NM

Sampling Date:

11/05/2018

Sampling Type:

Water

Sampling Condition:

\*\* (See Notes)

Sample Received By:

Tamara Oldaker

### Sample ID: SAMPLE # 02909 (H803163-01)

TDS 160.1	mg.	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	2410	5.00	11/06/2018	ND	472	89.6	527	7.48	

**Cardinal Laboratories** 

\*=Accredited Analyte

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Celeg D. Keine



November 07, 2018

JERRY MATHEWS
PERCUSSION PETROLEUM
919 MILAM , STE 2475
HOUSTON, TX 77002

**RE: FRESH WATER WELLS** 

Enclosed are the results of analyses for samples received by the laboratory on 11/05/18 10:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.qov/field/ga/lab\_accred\_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



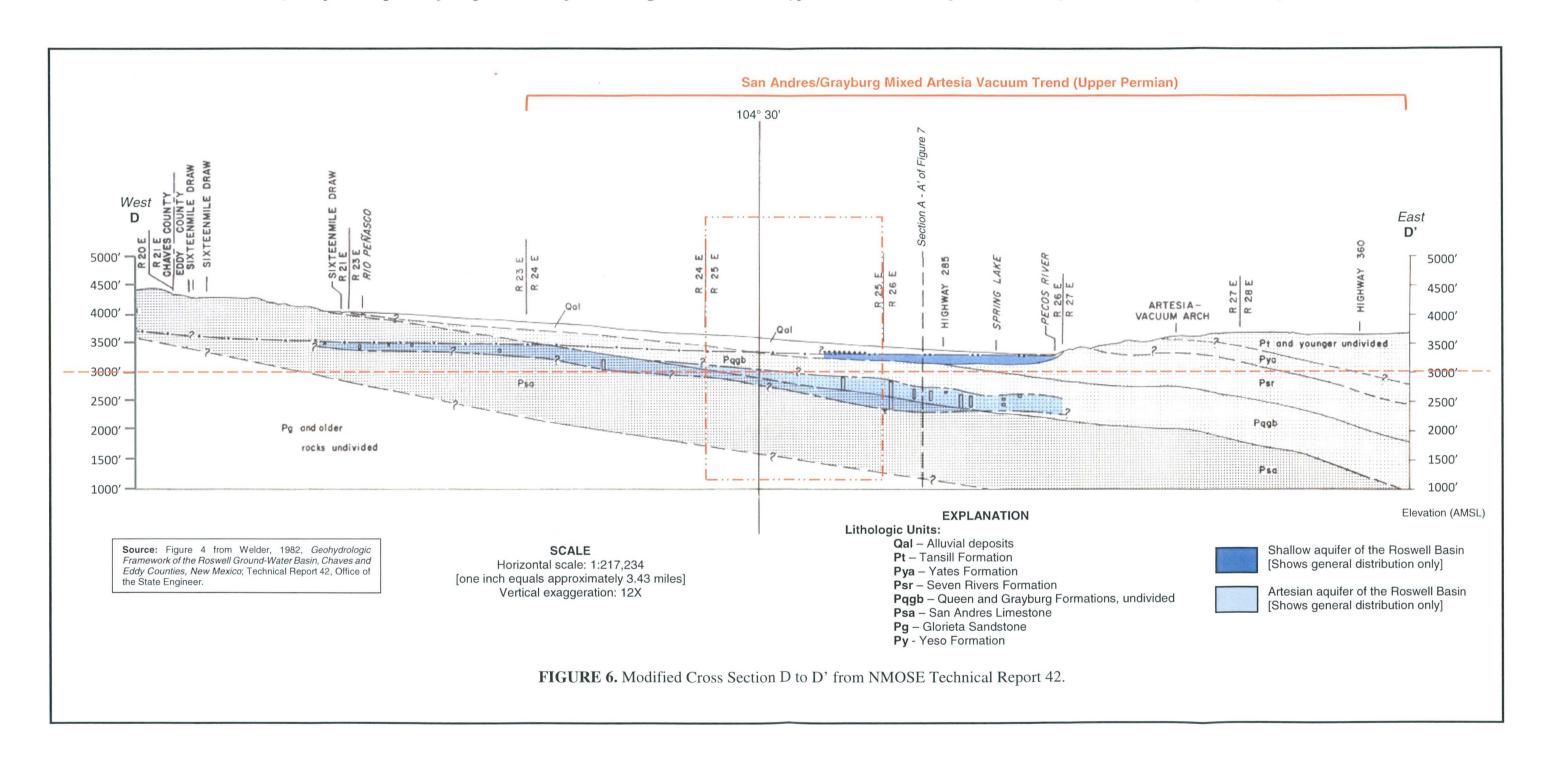
## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

	575) 393-2326 FAX	(575) 393-247	6																								
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Sampler Name:									Fax												1						
FOR LAB USE ONLY:			OMP.	S	ER.		TRIX		1	PRE	SERV		SAMPL	ING													
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Case No. 15487. Application of the New Mexico Oil Conservation Division Through the Supervisor of District II for an Emergency Order Suspending Certain Approved Applications for Permits to Drill, and for Adoption of a Special Rule for Drilling in Certain Areas, for the Protection of Fresh Water, Chaves and Eddy Counties, New Mexico.



## 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,

(quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is

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

(In feet)

**POD Number** RA 02909 RA 08986

Alluvial

QQQ Sub-Code basin County 64 16 4 Sec Tws Rng 1 3 22 19S 25E 548864 3611989\*

1 3 3 22 19S 25E

548825 3611507

Well Water Column 130 220

Depth Depth Water

100

Average Depth to Water: 175 feet

> 130 feet Minimum Depth: Maximum Depth: 220 feet

320

**Record Count: 2** 

PLSS Search:

Section(s): 21, 22

Township: 19S

Range: 25E

Artesian Aquifor per NMOSE Tech Rpt 42
Average thickness for AR - 380'
San Ardres at 688' - Figure 6 1 top of aquiforat 3200'
Thickness of aquifor Per Fig. 64 Fig. 7 3200



## Analytical Results For:

PERCUSSION PETROLEUM LELAN 919 MILAM , STE 2475 HOUSTON TX, 77002 Fax To:

Received:

01/23/2018

Sampling Date:

01/21/2018

Reported:

01/24/2018

Water

Project Name:

B & B 22 #4 SWD

Sampling Type: Sampling Condition:

\*\* (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

NOT GIVEN

### Sample ID: 32.39' 44" N (H800252-01)

Chloride, SM4500Cl-B	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	36.0	4.00	01/24/2018	ND	104	104	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	2270	5.00	01/24/2018	ND	207	97.2	213	3.25	

#### Sample ID: 32,38' 52" N (H800252-02)

Chloride, SM4500Cl-B	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	20.0	4.00	01/24/2018	ND	104	104	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1980	5.00	01/24/2018	ND	207	97.2	213	3.25	

## Cardinal Laboratories \*=Accredited Analyte

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Celleg & treene -

# 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: Percussion Petroleum Operating, LLC

Ross Ranch 22 SWD No.1 Reviewed 10/29/2018

## C-108 ITEM XIII - PROOF OF NOTIFICATION

## **IDENTIFICATION AND NOTIFICATION OF INTERESTED PARTIES**

# **Exhibits for Section**

Affected Parties Map

List of Interested Parties

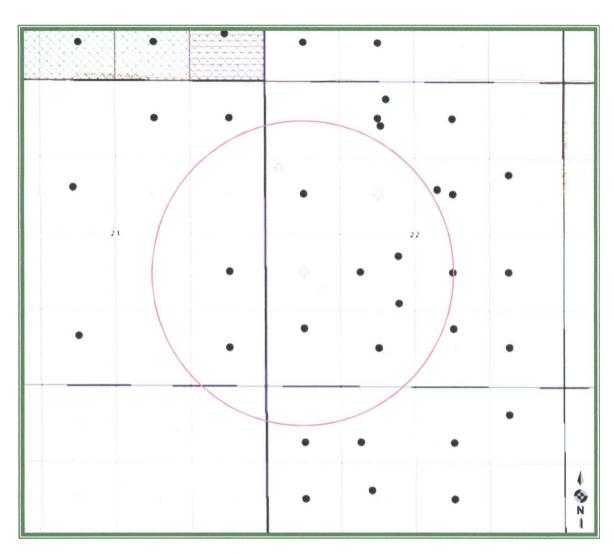
Notification Letter to Interested Parties

**Proof of Certified Mailing** 

**Published Legal Notice** 

# Ross Ranch 22 SWD No.1 – Affected Parties Map

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





### LEGEND

Sections 22 & 27

Operator: Percussion Petroleum Operating, LLC

Sections 21 & 28

Operator: EOG Y Resources, Inc.

Well Location NWSW Section 22-19S-25E

Surface Owner: Ross Ranch



# 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

1 ROSS RANCH P.O. Box 216 Lakewood, NM 88254-0216 Certified: 7018 0360 0001 8569 5197

## OFFSET MINERALS LESSEES and OPERATORS (All Notified via USPS Certified Mail)

Sections 22 & 27
Operator
PERCUSSION PETROLEUM OPERATING, LLC (Applicant)
919 Milam, Ste.2475
Houston, TX 77002

Operator
EOG Y RESOURCES
104 South 4th Street

Artesia, NM 77002 Certified: 7018 0360 0001 8569 5203

#### **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 St. Artesia, NM 88210





October 30, 2018

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

## To Whom It May Concern:

Percussion Petroleum Operating, LLC, Houston, Texas, has made application to the New Mexico Oil Conservation Division to reenter and complete for salt water disposal the Ross Ranch 22 No.1. The proposed SWD will be for private produced water disposal from Percussion's area operations. As indicated in the notice below, the well is located in Section 22, Township 19 South, Range 25 East in Eddy County, New Mexico.

The published notice states that the interval will be from 7615 feet to 8005 feet.

Following is the notice published in the Artesia Daily Press, New Mexico on or about October 29, 2018.

## LEGAL NOTICE

Percussion Petroleum Operating, LLC – 919 Milam, Ste.2475, Houston, Texas 77002, is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division seeking administrative approval to reenter and configure the Ross Ranch 22 Well No.1 for salt water disposal; located 1980' FNL and 660' FWL, Section 22, Township 19 South, Range 25 East, Eddy County, New Mexico; approximately 14.2 miles south/ southwest of Artesia, NM.

Produced water from Percussion's area production will be privately disposed into the Cisco/ Canyon formation at a maximum interval depth of 7615 feet to 8005 feet at a maximum surface pressure of 1523 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 is posted on the SOS Consulting **ShareFile** site and is available for immediate download.

Use the URL link <a href="https://sosconsulting.sharefile.com/d-s45e21b50e304359b">https://sosconsulting.sharefile.com/d-s45e21b50e304359b</a>

(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. (Copies may be downloaded and shared as needed among 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, "Ross Ranch SWD November 2018 PDF Copy Request".

Thank you for your attention in this matter.

Best regards,

Ben Stone, SOS Consulting, LLC

Agent for Percussion Petroleum Operating, LLC

Cc: Application File

SOS Consulting is committed to providing superior quality work using technology to assist clients and interested parties in obtaining the documentation required. SOS will continue to utilize methods for reducing papers copies and are less energy and resource intensive.

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.



## **C-108 - Item XIV**

Proof of Notice (Certified Mail Receipts)



# **Affidavit of Publication**

No. 24886

State of New Mexico

County of Eddy:

Danny Scott Lassy

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

Consecutive weeks/day on the same

day as follows:

First Publication

October 28, 2018

Second Publication

Third Publication

Fourth Publication

Fifth Publication

Sixth Publication

Seventh Publication

Subscribed and sworn before me this

29th

day of

October

2018



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Latisha Romine

Notary Public, Eddy County, New Mexico

pressure.

Interested opy of Publication:

Division 476-34 inform Consing.

Pub 201 Legal Notice

roleum Operating, LLC – 919 Milam, Ste.2475, s 77002, is filing Form C-108 (Application o Inject) with the New Mexico Oil Conservaeeking administrative approval to reenter and toss Ranch 22 Well No.1 for salt water disposal; NL and 660' FWL, Section 22, Township 19 5 East, Eddy County, New Mexico; approxiles south/southwest of Artesia, NM.

ser from Percussion's area production will be priled into the Cisco/ Canyon formation at a maxled depth of 7615 feet to 8005 feet at a maximum ssure of 1523 psi and a rate limited only by such

parties wishing to object to the proposed appliast file with the New Mexico Oil Conservation a, 1220 St. Francis Dr., Santa Fe, NM 87505, (505) 60 within 15 days of the date of this notice. Additional mation may be obtained from the applicant's agent, SOS ulting, LLC, (903)488-9850 or, email info@sosconsultiss.

lished in the Artesia Daily Press, Artesia, N.M., Oct. 28, 3 Legal No. 24886.

# FORM C-108 Technical Review Summary [Prepared by reviewer and included with application; V16.2]

DATE RECORD: First Rec: 10 10 12 Admin Complete:	or Suspended: Add. Request/Reply: 1 4 1 24
ORDER TYPE: WFX / PMX / SWD Number:Or	der Date: Legacy Permits/Orders:
Well No. 1 Well Name(s): POSS PAnch 22	•
API : 30-0 15-27 457 Spud Date:	New or Old (EPA): (UIC Class II Primacy 03/07/1982)
API : 30-0 15-27457 Spud Date:	2-Tsp 195 Rge 25E County Ed 1
General Location: 315 South / Antes Pool:  BLM 100K Map: Antesia Operator: Petroleyin, L	Sud Cisco Cunyon Pool No.: 96/86
RIM 100K Man. Ant Esia Operator Petroleum	37/755 Ben Stone;
COMPLIANCE RULE 5.9: Total Wells: 24/ Inactive: 3 Fincl Assur	,
WELL FILE REVIEWED () Current Status: Active ) NO アン	1) duction since Dec. 2011
NELL DIAGRAMS: NEW: Proposed 🔘 or RE-ENTER: Before Conv. 🕜 After	Conv. O Logs in Imaging:
Planned Rehab Work to Well:	
Well Construction Details  Sizes (in)  Setting  Borehole / Pipe  Depths (ft)	Cement Cement Top and
3/44/ 5/44	
Figures _0/ Existing _04/1400 / 79 / 79 / 79 / 79	Stage Tool 1300 SUNFACE VISUAL
Planned_or Existing _Interm/Prod	Sales
Planned_or Existing _Interm/Prod \( \begin{align*} \frac{1}{2} & 1	563/
Planned_or Existing _ Prod/Liner	<u> </u>
Planned_or ExistingLiner	Inj Length
Planned_or Existing_OH(PEB) 7615/8005	Completion/Operation Details:
Injection Lithostratigraphic Units: Depths (ft) Units Units	Tops Drilled TD 9444 PBTD
Adjacent Unit: Litho. Struc. Por.	7615 NEW TD NEW PBTD 805C
Confining Unit: Litho. Struc. Por. 5+4	NEW Open Hole O or NEW Perfs O
Proposed Inj Interval TOP: Shele CS	Tubing Size 42 in. Inter Coated?
Proposed Inj Interval BOTTOM:	Proposed Packer Depth 75/5 ft
Confining Unit: Litho. Struc. Por.	Min. Packer Depth 75/3 (100-ft limit) Proposed Max. Surface Press. 1523 psi
Adjacent Unit: Litho. Struc. Por. Adjacent Unit: Litho. Struct. Por. Adjacent Unit: Litho. Por. Adja	Admin. Inj. Press. 1523 (0.2 psi per ft)
	P Salt/Salado T:B: NW: Cliff House fm  HYDRO AFFIRM STATEMENT By Qualified Person
NMOSE Basin: Pos well AMPIST REEF: thru adj NA NA	lo. GW Wells in 1-Mile Radius? 3 FW Analysis?
GIONTYEST	On Lease Operator Only Of Commercial
Disposal Interval: Inject Rate (Avg/Max BWPD): 354 Protectable  HC Potential: Producing Interval? Formerly Producing? Method	e Waters? Source: System: Closed or Open
The state of the s	
AOR Wells: 1/2-M Radius Map and Well List? No. Penetrating Well	s: [AOR Horizontals: AOR SWDs:]
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 10-28-2014 Mineral Owner MA)	Surface Owner <u>PDSSPAncL</u> N. Date <u>10-30-20/8</u>
RULE 26.7(A): Identified Tracts? Affected Persons: E O G	1, Pencyssian(ApplicAm N. Date 10-3-204
Order Conditions: Issues: 1. Of enみすいつ ひょし	y 2, B, S-> yer 2. Ltd tubing size
Additonal COAs:	, , , , , , , , , , , , , , , , , , , ,
	peny penes7704-7778(depleted)
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