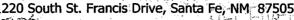
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NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau 1220 South St. Francis Drive, Santa Fe, NM 87505





A	DMINISTRATIVE AP	PLICATION CHEC	KLIST
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Application Acronyms:	PAGE 1		The second secon
	lard Location] [NSP-Non-Standa ole Commingling] [CTB-Lease		
	Commingling] [OLS - Off-Lease		
-		MX-Pressure Maintenance E	
	[SWD-Salt Water Disposal]		
(EOR-Qualif	ied Enhanced Oil Recovery Certi		
			Sun
	LICATION - Check Those Which		
[A]	Location - Spacing Unit - Simulta	aneous Dedication	Permian TOULL
	□ NSL □ NSP □ SD		306958
Check (One Only for [B] or [C]		
(B]	Commingling - Storage - Measur	ement 🐧 💮	A. A. C.
,	☐ DHC ☐ CTB ☐ PLC	C PC OLS	OLM
[C]	Injection - Disposal - Pressure In	crease - Enhanced Oil Recove	ery PERMIANTOS, LLC
[ت]		D PI EOR	
			30-025-32750
[D]	Other: Specify	·	- Pod
roll Nomina Ame	ON DECTIONED TO 1 OL 1 TI	WILL 1	
,	ON REQUIRED TO: - Check The		Not Apply - Sindy Devoning Si Lunian 97869
, [A]	working, Royalty or Overrio	ding Royalty Interest Owners	
ГВ	M Offset Operators, Leasehold	ers or Surface Owner	SICANIEL
زما	Offset Operators, Deasenfold	Sir Surface Owner	97869
[C]	Application is One Which R	Requires Published Legal Noti	ce
	, PP		
[D]	Notification and/or Concurre	ent Approval by BLM or SLC)
	U.S. Bureau of Land Management - Comm	Issioner of Public Lands, State Land Office	*
[È]	For all of the above, Proof of	of Notification or Publication	is Attached, and/or,
[F]	☐ Waivers are Attached		
	:		
	CURATE AND COMPLETE IN TION INDICATED ABOVE.	FORMATION REQUIRED	TO PROCESS THE TYPE
		·	
[4] CERTIFICAT	FION: I hereby certify that the inf	formation submitted with this	application for administrative
approval is accurate ar	nd complete to the best of my kno	wledge. I also understand that	at no action will be taken on this
application until the rec	quired information and notification	ns are submitted to the Division	on.
Notes	Statement must be completed by an ind	lividual with managerial and/or our	nonvisory canacity
Hole:	Sizzement must be completed by all mo	arrada willi manayenai anwor su	pervisory capacity.
	5 JO 12 1 X.	<u>*</u>	
Eddie W. Seay	Simulation Williams		ng Agent (Permian TDS, LLC)
Print or Type Name	Signature	Title	Date
•	•	\ seay04@leaco	net -
		a mail A ddraga	

PERMIAN TOS, LLC

RE: SV Sundown State #1 (API 30-025-32750) Unit M, Sect. 14, T. 10 S., R. 37 E. Lea County, NM

Dear Sir:

In accordance with the Rules and Regulations of the Oil Conservation Division of the State of New Mexico, you are being provided a copy of the C-108, Application for Authorization to Inject into the above captioned well to be drilled.

Any questions about the permit can be directed to Eddie W. Seay, (575)392-2236. Any objections or request for hearing must be filed with the Oil Conservation Division within fifteen (15) days from the date received. The OCD address is 1220 S. Saint Francis Drive, Santa Fe, NM 87504, (505)476-3440.

Thank you,

Eddie W. Seay, Agent

Eddie Seay Consulting 601 W. Illinois

Hobbs NM 88242

(575)392-2236

seay04@leaco.net

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: Secondary Recovery Pressure Maintenance XXX Disposal Application qualifies for administrative approval? Yes No	Storage
П.	OPERATOR: PERMIAN TDS, LLC	· ·
	ADDRESS: PO BOX 788 LOVINGTON NM 88260	
III.	CONTACT PARTY: Eddie W. Seay Consulting Agent WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection Additional sheets may be attached if necessary.	575-392-2236 on.
IV.	Is this an expansion of an existing project? Yes XXX No If yes, give the Division order number authorizing the project:	
v.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-hadrawn around each proposed injection well. This circle identifies the well's area of review.	alf mile radius circle
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the propose data shall include a description of each well's type, construction, date drilled, location, depth, record of compl of any plugged well illustrating all plugging detail.	d injection zone. Such etion, and a schematic
VII.	Attach data on the proposed operation, including:	. •
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Swp; ECHOL; DEVO Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if of produced water; and, If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the prochemical analysis of the disposal zone formation water (may be measured or inferred from existing literation) 	NIAN NORTHEAST her than reinjected oposed well, attach a
417777	wells, etc.).	
- 4111	II. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers contain dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any be immediately underlying the injection interval.	ing waters with total
IX.	Describe the proposed stimulation program, if any.	
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they nee	ed not be resubmitted).
*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) wit injection or disposal well showing location of wells and dates samples were taken.	hin one mile of any
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and find no evidence of open faults or any other hydrologic connection between the disposal zone and any undrinking water.	c and engineering data inderground sources of
XIII.	. Applicants must complete the "Proof of Notice" section on the reverse side of this form.	
XIV.	. Certification: I hereby certify that the information submitted with this application is true and correct to the bes belief.	t of my knowledge and
	NAME: Eddie W. Seax TITLE Consulting Age	nt (Permian TDS, LLC
	SIGNATURE:DATE:	
;	E-MAIL ADDRESS: seay04@leaco.net	
* DIST	If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need represented the Please show the date and circumstances of the earlier submitted: TRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office	not be resubmitted.

III. WELL DATA

- 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

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.

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.

Side 1

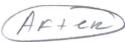
INJECTION WELL DATA SHEET



OPERATOR:		PERMIAN TDS	LLC			
WELL NAME & N	IUMBER:	SV SUNDOWN S	STATE 1			
WELL LOCATION	N: <u>477' FSL</u>	191' FWL	<u>M</u> UNIT LETTER	<u>14</u>	108	37E
	FOOTAGE L	OCATION	UNITLETTER	SECTION	TOWNSHIP	RANGE
Permian TDS, LLC SV Sundown State # 1	WELLBORE SCHE	<u>MATIC</u>		WELL CONS Surface C	TRUCTION DATA	
77' FSL, 191' FWL. Unit (M), Sec 14, T10S, R3	Current		Hole Size:	17 – ½"	Casing Size:13 - :	3/8"
Surface Hole		Tree Connection P&A Surface Csg. 13 3/8" 48# KB	Cemented with: _	350 sx.	or <u>462</u>	ft ³
Bit Size <u>17 1/2"</u>		Set @ 2350' 350 sx Class C Circulated to Surf.	Top of Cement: _	SURFACE	Method Determined	: CIRC. W/ 85sx
Perf. 400' 120 sx down 5 1/2" csg. X 8 5/8' 5 1/2" full cmt.	** 25 5.			Intermediate	e Casing	
erf. 2300' Tag Cmt. @ 2178'		Interm. Csg.8 5/8" 32# KB Set @ 4,260" 1240 sx lite + 200 sx class C Circulated to Surf.	Hole Size:	12- 1/4"	Casing Size:8-	5/8" .
it Size 12 1/4"	X	Perspective	Cemented with: _	1440 sx.	or1900.8	ft ³
erf 4310' Sqz 40 sx Tag @ 4150'		S.A. 2048=5	Top of Cement: _	SURFACE	Method Determined	: CIRC. W/ 185 s
Spot 25 sx CIBP Set @ 4900'		TOC 5 1/2 Est. 4,918'	Cemented with: Top of Cement:	Production	Casing	
Spot 25 sx cmt. Existing plug @ 5,296'		San Andres perf @ 4,998' - 5,012'	Hole Size:	7- 7/8"	Casing Size: 5 –	1/2"
ag plug @ 5.463' Dress plug off to 5.490' et 150 sks plug @ 5.788' Tag @ 5.482'		MXV			or785.4	$\underline{1}$ ft ³
et 200 sks TOC 5,789'			Top of Cement:	4918'	Method Determined	: <u>CALCULATEI</u>
op of fish (drill Pipe) @ 5,958' et 150 sks plug @ 5,965' & dress off.		Intent CIBP @ 9,400' w/ 35' Cmt. Dum No record of Subsequence C-10 Perf. Wolfcamp 9,466 - 7	Total Denth: 1	2,174' KB		
et 100' Cmt plug across DV Tool 0,057' - 9957'		DV tool @ 10,007*		Injection In	nterval	
IBP Set @ 12,080' 25' Cmt. On CIBP 7.7/8"		Production Csg. 5 1/2" 20# & 23 Setting depth @ 12,140' KB	12,	125' GL feet	to_EST. 12,700'_	
	TD @ 12,174'	180 sx class H (1st) 415 sx class H (2nd) PBTD OH 12.140' - 174'		(Perforated or Open Ho	ole; indicate which)	

Side 1

INJECTION WELL DATA SHEET

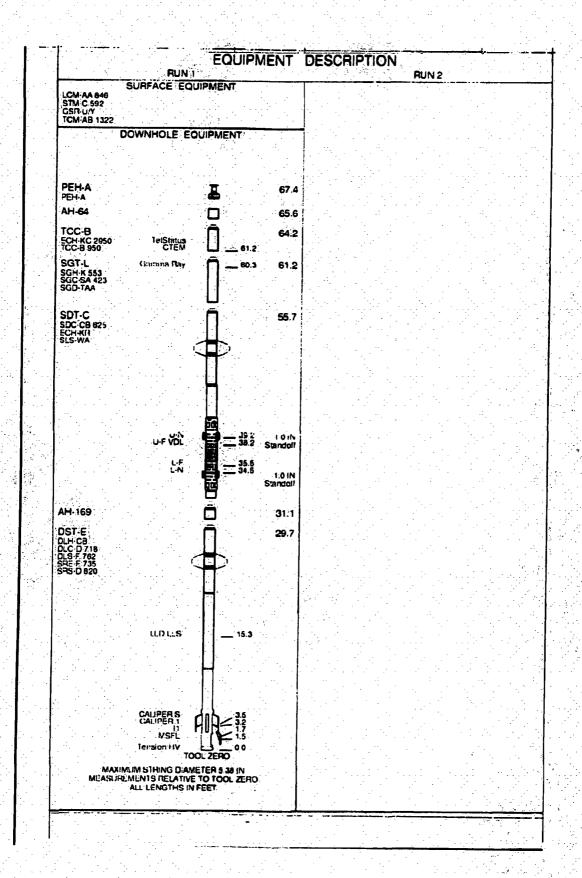


OPERATOR:		PERMIAN TDS LLC				
WELL NAME & NUM	IBER:	SV SUNDOWN STA	TE 1			
WELL LOCATION: <u>47</u>	77' FSL 191 FOOTAGE LOCA	FWL	M UNIT LETTER	14 SECTION	10S TOWNSHIP	37E RANGE
an TDS, LLC ndown State # 1	LLBORE SCHEMAT	<u>IC</u>		WELL CONS Surface C	TRUCTION DATA Casing	
SL, 191' FWL, Unit (M), Sec 14, T10S, R37E 30-025-32750		Connection 3 1/2" 7.7# L80 Flush Jt. IPC ace Casing: 13 3/8" 48# KB		$\frac{-\frac{1}{2}}{2}$ sx.		
ze <u>17 1/2"</u>		ing Depth @ 350' 350 sx Class C Circulated to Surf.		RFACE Intermediate	Method Determined	
Hole ze <u>12 1/4"</u>	Interm. Setting	4,260° 1240 sx lite + 200 sx class C Circulated to Surf.	Cemented with:	2- ½" _1440 sx. SURFACE	Casing Size:8- or1900.8_	ft ³
	Sar	TOC 5 1/2 Est. 4,918' Andres perf @ 4,998' - 5,012'	rop or coment	Production		. <u>OIRC. W/ 103 5</u>
				7/8"	Casing Size: 5 –	
ug @ 5.463' Dress plug off to 5.490' 0 sks plug @ 5.788' Tag @ 5.482' 0 sks TOC 5.789'			Cemented with:	595 sx.	or	
fish (drill Pipe) @ 5.958* 0 sks plug @ 5.966* & dress off. D0' Cmt plug across DV Tool		Perf. Wolfcamp 9,466 - 71'	Total Depth:12,1	174' KB		
7' - 9957' Set @ 12,080' 25' Cmt. On CIBP		PKR. 3.5 x 5 1/2 Arrow set @ 12,100' ± Production Csg. 5 1/2" 20# & 23# Setting depth @ 12,140' KB		Injection I	nterval to_EST. 12,700'_	
	TD @ 12,174'	180 sx class H (1st) 415 sx class H (2nd) 7 7/8" OH EXISTING 12,140' - 174' OH NEW 4 7/8" 12,174' - 12,700'		(Perforated or Open Ho	ole; indicate which)	

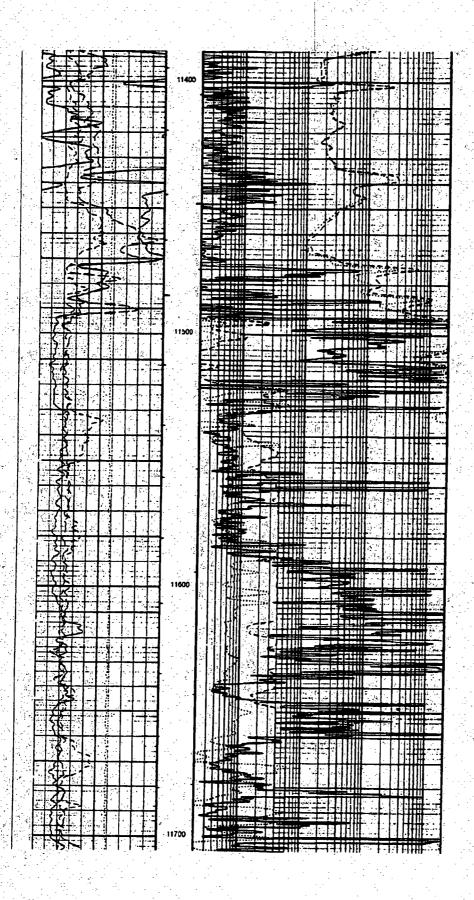
<u>INJECTION WELL DATA SHEET</u>

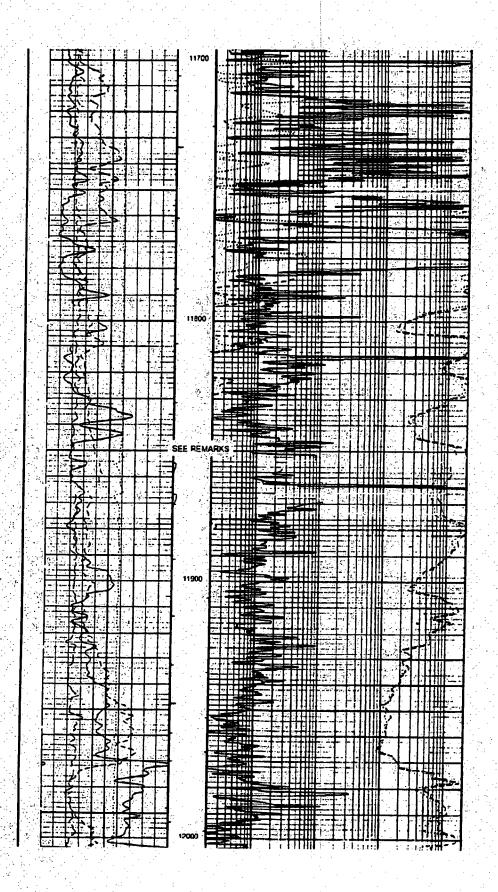
ıyţ	pe of Packer: ARROW SET SS "F" NIPPLE O/O TOOL 3.5" X 5.5"
Pac	cker Setting Depth: 12,075'
Oth	ner Type of Tubing/Casing Seal (if applicable): <u>N/A</u>
	Additional Data
1.	Is this a new well drilled for injection? Yes XXX_No
	If no, for what purpose was the well originally drilled? O&G IN (DEVONIAN, WOLFCAMP), OIL IN SAN AN
	EFFORTS MADE RESULTED IN NON PRODUCTIVE RESULTS.
2.	Name of the Injection Formation: <u>DEVONIAN / SILURO - FUESSLMEN</u>
3.	Name of Field or Pool (if applicable): ECHOL; DEVONIAN NORTHEAST # 96374
4.	Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. <u>WOLFCAMP PERF. 9,466' - 9,471'</u>
	SAN ANDRES 4,998' – 5012' 3 CIBP SET & 7 PLUGS SET PLEASE SEE SIDE 1
5.	injection zone in this area: <u>UNDERLYING ZONES BELOW ARE - MONTOYA EST.12,700'</u> ,
	SIMPSON EST. 13,050' ELENBURGER EST. 13,400' OVERLAYING ZONES ARE – WOODFORD 12,097', MISSISSIPPIAN Ls. 11,494' PENNS.(BOUGH C)
	WOLFCAMP 8950', ABO 7,752, DRINKARD 7,075' CLEARFORK 6,424' SAN ANDRES 4838',

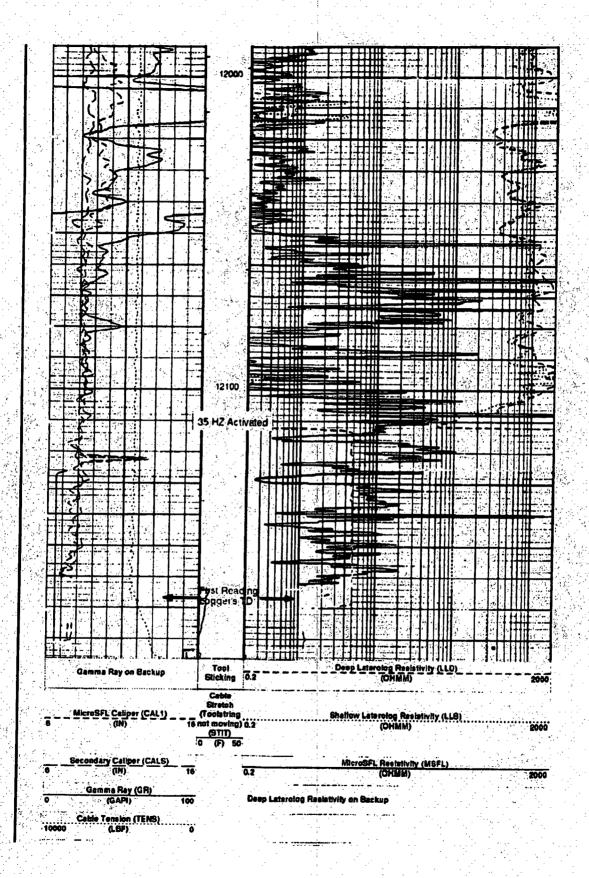
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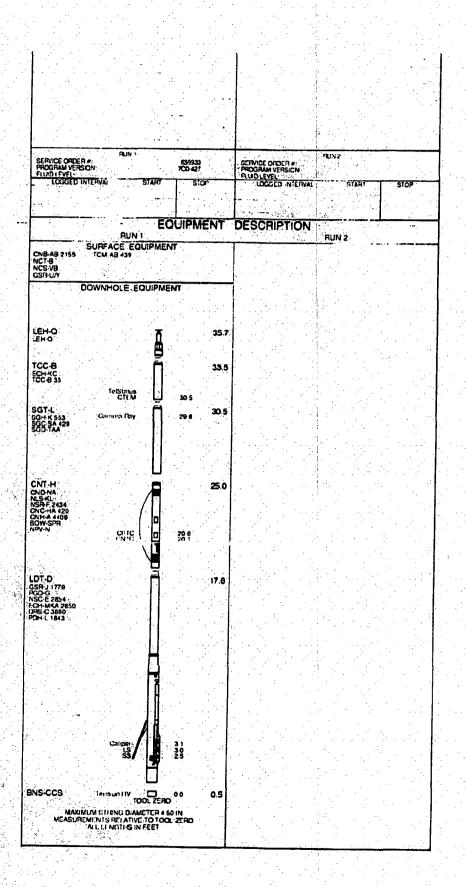
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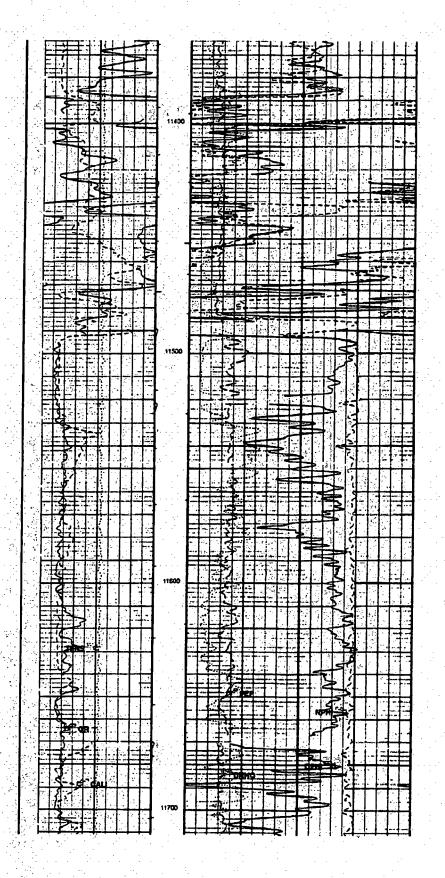




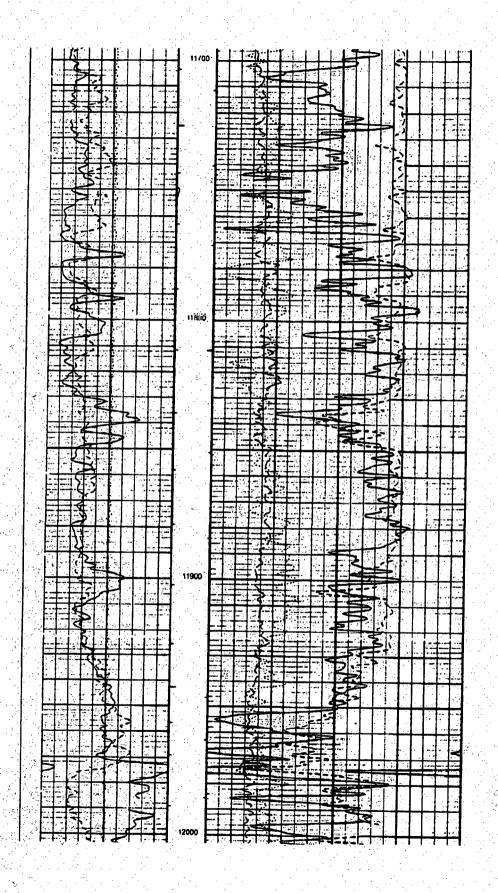
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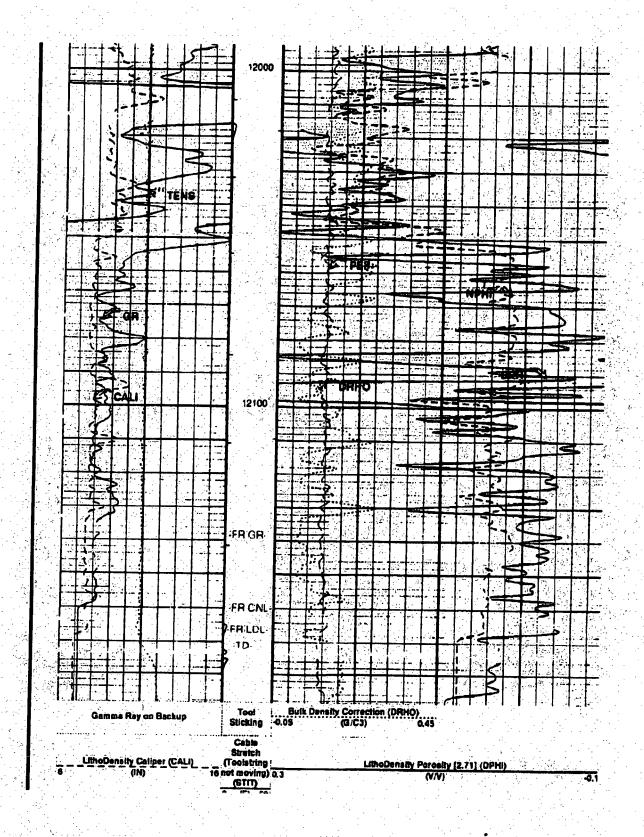


DEFAULT LDTD	Output DLIS (Files 1995 04:50 12188.5 FT	190.0 FT
Hole Volume = 4863.3 Coment Volume = 335 Computed from 1217	Integrated Hole/Cement V 13 F3 17.59 F3 (assuming 5.50 IN casing O.D.) 10 FT to 4260.0 FT using data channel(s)		
	OP System Version	: 7C0-427	
DLIS Name	Changed Parameter New Value CASED	Summary Previous Value	Depth & Time
MAIN PASS	PIP SUMMARY Integrated Borehole Volume E Integrated Borehole Volume E Integrated Annulus V	erry 10 F3 Every 100 F3 Clume Every 10 F3	4247.0 05.14.17
Time Mark Every 60 S	一 Integrated Annulus V	niume Every 100 F3	
Cable Tension (TENS)		Bulk Density (RHOB)	
(LBF)	Cable Stretch	(G/CI)	
Gamma Ray (GR) (GAPI)	(Toolstring 3 Times 100 not moving) 0.3	hermal Neutron Porcetty (LIME) ((V/V)	NPHI)



A Diff. o





PERMIAN TDS, LLC

PAGE 1

SV SUNDOWN STATE 1

477' FSL, 191' FWL, SEC. 14, T. 10 S, R. 37 E

LEA COUNTY, NEW MEXICO

30-025-32750

APLICATION FOR AUTHORIZATION TO INJECT

Objective is to re-enter a 1994 drilled wildcat Devonian well with a vertical depth of 12,174'. This well was plugged and abandoned on June 13, 2008. The SV Sundown 1 well located in unit (M) of Sec 14, T10S, R37E also was tested for production in the Wolfcamp and the San Andres they also showed non- productive. The conversion of this well is to create a Commercial Salt Water Disposal well.

II. Operator: Permian TDS, LLC

OGRID # 306958

Operator phone number:

(575)-396-5303 or (575)-399-5031

Operator address:

PO Box 788 Lovington NM 88260

Contact for Application:

Eddie Seay, Consulting Agent (Permian TDS, LLC)

Phone (575) 392-2236

III: A. (1)

Lease:

New Mexico State Land Office Lease (VB27320001.)

Lease Size:

40 acres (see Exhibit-A for Map and C-102)

Closest Lease Line:

2,163 feet

Lease Area

SW ¼ SW ¼ Section 14, Township 10 S, Range 37E

A. (2) Surface Casing (13 – 3/8", 48# WCH-40 ST&C 8R) was set at 350' KB on 12-11-94 in a 17-1/2" hole. Cemented with 350 sacks Class C Circulating 85 sacks at surface.

PERMIAN TDS, LLC

PAGE 2

SV SUNDOWN STATE 1

477' FSL, 191' FWL, SEC. 14, T. 10 S, R. 37 E

LEA COUNTY, NEW MEXICO

30-025-32750

Intermediate casing (8-5/8" 32# K-55 ST&C 8R) was set at 4260' KB on 12-18-94 in a 12 - 1/4" hole. Cemented with 1240 sks. Lite Tail in with 200 sacks Class C Circulating 185 sacks at surface

Production Casing (5 - 1/2" S95 & N80 20# and 23# ST&C) DV tool was set at 10,007' Casing was set at 12,140' KB on 3-11-95 in a 7 - 7/8" hole. Cemented in 2 stages first stage with 180 sacks Class H second stage with 415 sacks of Class H.

Note: As Reported on C-103 1-23-95 TD 12,131' fishing for dropped drill pipe. Pulled 1 stand plus part of 2sd stand. Was 180' off bottom, Drill line parted and dropped drill pipe and block,

1-24-95 TIH to find top of fish with mill. Pulled out of the hole with 56 stands plus 24' of parted joint; Total tally of drill pipe recovery was 5939' Tagged the top of the fish at 5950'.

1-25-95 Waiting on wireline truck to run fish finder. Tripped into the hole and tried to hook fish — could not get below 5960'. Picked up wash over pipe with a shoe and mill. Tagged the fish at 5958' washed over fish to 5990'. Pulled Out of the hole.

1-26-95 Ran fish finder and found fish at 5933' picked up wash pipe, shoe and mill. Tagged fish 5958' washed over fish to 5990' mill at 5958'.

1-27-95 Prep to set 150 sack plug at 5965' and dress off. Will sidetrack hole.

1-29-95 Plug back total depth is at 5482'. Set a third plug of 200 sacks of Class H plus 2% CaCl. Tagged plug at 5789'. Set a fourth plug of 150 sacks Class H plus 2% CaCl at 5788' tagged plug at 5482'.

1-30-95 Drilling with downhole motor and two bent subs at 5491'. Tagged plug at 5463' dressed plug off to 5490'.

1-31-95 Drilling at 5563' with motor.

PERMIAN TDS, LLC

SV SUNDOWN STATE 1

PAGE 3

477' FSL, 191' FWL, SEC. 14, T. 10 S, R. 37 E

LEA COUNTY, NEW MEXICO

30-025-32750

2-01-95 Drilling at 5705'.

3-11-95 TD at 12,174' Ran 302 joints 5-1/2" S95 and N80 20# and 23# casing. DV tool at 10,007' set casing at 12,140' KB. Cemented in two stages with 180 sacks of Class H and second stage Cement with 415 sacks of Class H.

Chesapeake Operating Inc. Plugged and Abandoned the SV Sundown on 6-13-08 currently the well bore has three CIBP and possible a fourth above the Wolfcamp not defined in reports, with 7 cement plugs total.

- A. (3) Tubing will be 3.5" J-55 interior plastic coated. Setting depth will be approximately 12,100'KB. The Disposal interval will be (12,140' to Est. 12,700' KB).
- A. (4) A 3.5" x 5-1/2" Arrow set SS "F" O/O tool packer will be set at approximately 12,100' KB (40' above the open hole top of 12,140' KB).
- B. (1) Disposal Zone will be the SWD ECHOL; DEVONIAN NORTHEAST (96374). Including the Silurian and the Fuessiman zones.
- B. (2) Disposal interval will be 12,140' to Est. 12,700'KB. There are no plugs below 12,140'.
- C. (3) Well was drilled as a Devonian wildcat oil or gas production well. On 05-03-00 it was P&A with a CIBP set at 12,080' and 25' of cement by bail dump on top of CIBP. They set a 100' cement plug across the DV tool from 10,057' back to 9,957'. They then came up the hole and perforated the Wolfcamp at 9466'-71' to test.

PERMIAN TDS, LLC

PAGE 4

SV SUNDOWN STATE 1

477' FSL, 191' FWL, SEC. 14, T. 10 S, R. 37 E

LEA COUNTY, NEW MEXICO

30-025-32750

B. (4) Disposal well will be completed open hole from 12,125' GL to Est. 12,700' GL. Currently the Devonian's open hole is from 12,140'KB to 12,174' KB. Wolfcamp was perforated from 9,466' to 9,471' procedure shows with APD to set CIBP at 9,400' and dump 35' on top. No C103 subsequence report on this to be found. A plug shows to have been placed at 5488'. San Andres perforated from 4,998' to 5,012' CIBP set at 4950' bail dump 35' cement on top.

B. (5) Above the Devonian Zone closest to this well is the SV Sundown State 2 San Andres (4,996'-5,010') 533" (Lat. 33.4416942 Long. -103.1297421) away. P&A in 7-23-15.

To the northwest SV Sunrise State 1, NE ECHOL DEVONIAN (12,050' – 12,108') 765' (Lat. 33.4423866 Long. -103.1331678) away. P&A in 6-14-16. See Exhibit B for aerial view of noted wells.

- IV. This is not an expansion of an existing injection project. It will be disposal only.
- V. In Exhibit C the half mile radius shows four wells with in the half mile radius (1-Proposed SWD plus 1- plugged Devonian plus 2 Plugged San Andres wells). Exhibit D shows 20 existing wells of the 20 (9- P&A Devonian, 2- Devonian T&A, 1-Devonian Active, 5- P&A San Andres, 1- APD San Andres, 1- Active San Andres and 1- Inactive San Andres SWD). Exhibit E shows all leases and lessors (State, Fee or BLM) within a half mile radius. Exhibit F shows all leases and lessors (State, Fee or BLM) within a two-mile radius. Details on the leases within a half-mile AOR.

PERMIAN TDS, LLC

PAGE 5

SV SUNDOWN STATE 1

477' FSL, 191' FWL, SEC. 14, T. 10 S, R. 37 E

LEA COUNTY, NEW MEXICO

30-025-32750

<u>T. 10S, R. 37E</u>	<u>Lessor</u>	Lease Number	<u>Lessee</u>
Sec. 15	NMSLO	GT2454	Not leased
E Sec. 14	NMSLO	VB27130001	Apache
W Sec. 14	NMSLO	VB 27320001	Apache
N Sec. 22	NM SLO	VB2881000	Doug J. Schutz
S-Sec. 22	NMSLO	VB28900000	Headington Energy Partners
W Sec. 23	NMSLO	VB27140001	Apache
E Sec. 23	NMSLO	VB27330000	Federal Abstract Corp.

VI. Four wells are within the 2,640' radius of the SV Sundown State 1, only one penetrates the top of the Devonian the other two wells are drilled to the San Andres formation. Exhibit G is the summary of all four wells. Wells in or near the area of review are:

API	WELL NAME	OPERATOR	WELL TYPE	SECTION	TVD	ZONE	DISTANCE
3002533724	⊰SV Sunrise State 1	Legacy Reserves Operating LP	0	15	12,108	ECHOL: Devonian Northeast	765′
3002535597	SV Sundown State 2	Concho Oil & Gas	0	14	5,150	East ECHOL San Andres	533'
3002535907	SV Sundown State 3	Chesapeake	0	14	5,200	East ECHOL San Andres	2,522
3002504988	PRE ONGARD	PRE ONGARD	О	22	5077'	East ECHOL San Andres	3,643'
3002504989	Sundown State 1 SWD	Legacy Reserves Operating LP	O/INJ.	22	5535′	East ECHOL San Andres	3,612′

PERMIAN TDS, LLC

PAGE 6

SV SUNDOWN STATE 1

477' FSL, 191' FWL, SEC. 14, T. 10 S, R. 37 E

LEA COUNTY, NEW MEXICO

30-025-32750

VII. 1. Average injection rate will be 8,000 BWPD

Maximum injection rate will be 15,000 BWPD

- 2. System will be closed. Water will be trucked and pipelined to the SV Sundown State # 1 battery located close to the Bledsoe Hwy 125 then piped to the Storage suction tank battery on the location of the SV Sundown State 1.
- 3. Average injection pressure will be 2,400 psi. Average injection pressure will be 2,428 psi (= 0.2 psi/foot x 12,140' top of hole interval).
- 4. There has been no reports of problems disposing into the Devonian in this area of review the closest plugged injection Devonian well the Morse SWD 1 (30-025-04995) (A-28-105-R37E). Total of 225,045 bbl. was disposed down this well before it was plugged due to inactivity.
- 5. The main source of disposal water will be produced water from the San Andres and Devonian. Closest ECHOL Devonian Northeast well is 765' east and plugged in 5-31-16. A summary of water analyses is in Exhibit H.
- VIII. The Devonian in the area of review is Dolomite, Limestone and Anhydrite from 12,050' to 12,174'. San Andres formation in the area of review is a tan-gray anhydritic dolomite with pin point and vuggy porosity from 4250 to 5200 ±. The only known fresh water in the area is the Ogallala

McMillan, Michael, EMNRD

From:

McMillan, Michael, EMNRD

Sent:

Friday, May 19, 2017 10:29 AM

To:

'Rena Seay'

Cc:

Jones, William V, EMNRD; Lowe, Leonard, EMNRD; Whitaker, Mark A, EMNRD; Kautz,

Paul, EMNRD; Brown, Maxey G, EMNRD; Goetze, Phillip, EMNRD

Subject:

Permian TDS SV Sundown State SWD Well No. 1 API 30-025-32750

Eddie:

The OCD has concerns about the calculated cement top in your application.

Original operator said the cement top of the 5-1/2 shows 9000' (most likely scenario). I calculated 7500'. Therefore it is reasonable to assume that the San Andres formation perforations are not covered by cement.

Therefore, the Applicant shall provide a CBL to the Hobbs District Office and Santa Fe office before injection occurs.

Next, the original TD was 12174 feet. Your injection interval is from 12174-12700'. The OCD will only allow injection into the Devonian and Silurian formations. Injection into the Ordovician is prohibited.

Therefore, the Applicant will be required to provide mud log, electric logs (if ran), and summary of log tops to the Hobbs and Santa Fe Offices to ensure that the injection interval is in the Devonian and Silurian formations. Injection shall not occur until both Santa Fe and Hobbs has approved your injection interval.

MICHAEL A. MCMILLAN

Engineering Bureau, Oil Conservation Division 1220 south St. Francis Dr., Santa Fe NM 87505 O: 505.476.3448 Michael.McMillan@state.nm.us



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

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

PLSS Search:

Section(s): 10-12, 13-15,

Township: 10S

Range: 37F

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

6/7/17 10:38 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

PERMIAN TDS, LLC

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SV SUNDOWN STATE 1

477' FSL, 191' FWL, SEC. 14, T. 10 S, R. 37 E

LEA COUNTY, NEW MEXICO

30-025-32750

formation found at a depth of 75' with a thickness of 50' ±. No drinking water has been found below the Devonian formation.

Formation Tops are:

Quanternary = 0'

Anahydrite = 2,250'

Yates = 2,950'

San Andres = 4,838'

Drinkard = 7,075'

Abo = 7,752'

Wolfcamp = 8,950'

Penn = 9,510'

Miss Lm =11,494'

レ るニ /1977 Devonian= 12,052

PBTD = None, OH

Total Depth = 12,174

PERMIAN TDS, LLC

PAGE 8

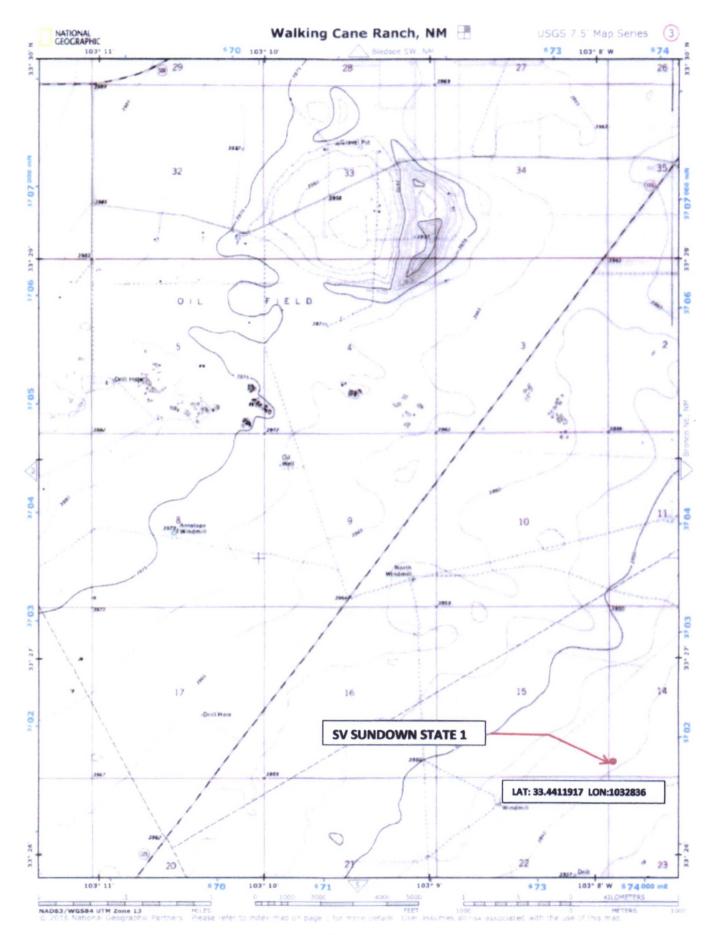
SV SUNDOWN STATE 1

477' FSL, 191' FWL, SEC. 14, T. 10 S, R. 37 E

LEA COUNTY, NEW MEXICO

30-025-32750

- IX. Stimulate with 7500 gal 25% HCL plus inhibitors and displaced with 10 pound quality brine to clean out scale and any existing wall cake.
- X. CNL- LITHO, DENSITY, DDL, MSFL, & DHCS Logs have been run and filed with the NM OCD.
- XI. No water wells are to be found within our half mile radius AOR. One well was found with a one mile radius in C-27-T 10S-R 37E. Exhibit H Map of documented water wells in the area, water analysis from the Devonian, San Andres & Ogallala formation. Exhibit I
- XII. Permian TDS LLC is not aware of any geologic or engineering data that may indicate the ECHOL; Devonian Northeast is in hydrological connection with any underground source of water. The Closest fault is in (Guadalupe) more than 120 miles away Affirmation letter & map Exhibit J.
- XIII. Notice (This application) has been sent **Exhibit K** to the surface owner (NM State Land Office), lessors, (NM State Land Office Lessees.)



DISTRICT | P.U. Bob 1980, Hobes, NM 22240

State of New Mexico

Apergy, Minerels and Setural Crammers Department

Form C--102
Rerised February 10, 1994.
Instruction on back.
Submit to Appropriate District Office.
State Lease - 4 Copies
Fee Lease - 9 Copies

DISTRICT II P.O. Drawer DD. Artonia, NE 66210

DISTRICT III

OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe. New Mexico 87504-2088

D AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Code Pool Name 30-025-32750 Property Code Property Name 16113 SV SUNDOWN STATE

30-025-		<u> </u>	\perp q	604D		Wildo	at Douge	
Property					Property: No	101 <i>7</i>	N. LIPUIN	Tell Number
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Certificate No.

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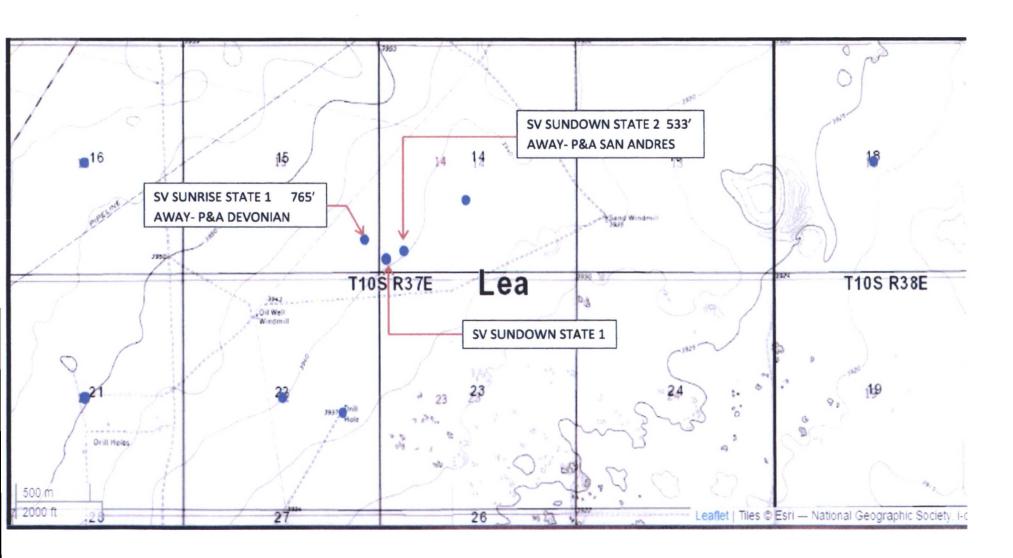


EXHIBIT B

SV SUNDOWN STATE 1
WELLS AND LEASES WITH IN TWO MILES AND HALF MILE RADIUS AOR

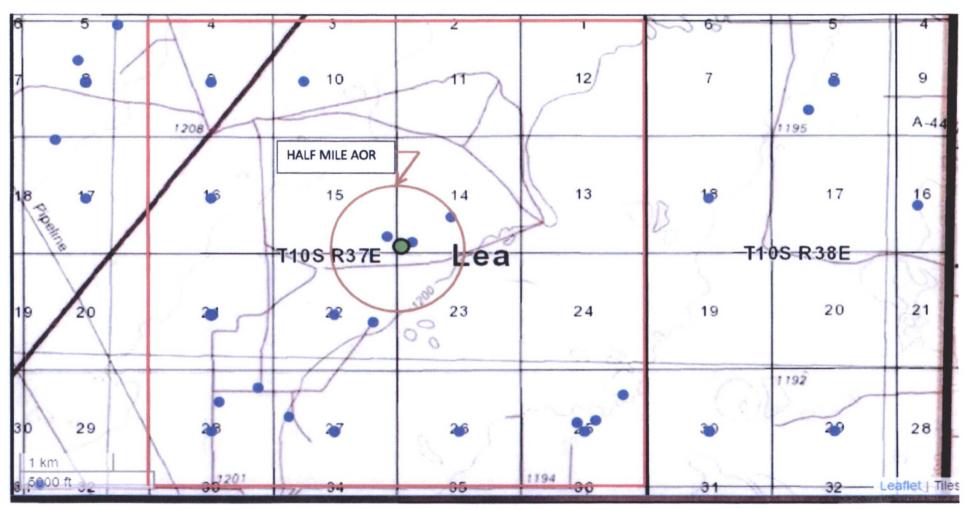


EXHIBIT C

SV SUNDOWN STATE 1
WELLS AND LEASES WITH IN TWO MILE Radius



EXHIBIT D

NOTICES

SURFACE OWNER AND MINERAL INTEREST OWNER

State of New Mexico State Land Office 310 Old Santa Fe Trail Box 1148 Santa Fe, NM 87504

OFFSET OPERAORS

None

OFFSET MINERAL INTEREST OWNER

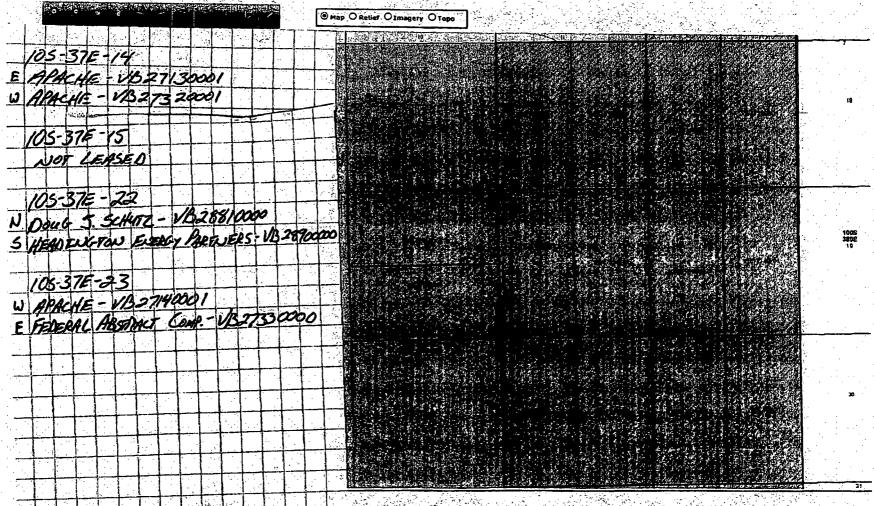
State of New Mexico State Land Office 310 Old Santa Fe Trail Box 1148 Santa Fe, NM 87504

OFFSET LEASEHOLD OPERATOR

Apache Corp.
2000 W. Sam Houston Pkwy #20
Houston, TX 77042

Oil and Gas, Minerals Mac Serv





STATE DAME OFFICE

EXHIBIT

HOME APPLIATED WEBSITES EXPLOYES ACCESS JOB OPENINGS, NEW MEDICO BURSHINS PORTAL ENPLOYEE LOOKUP GET EMAL UPDATES

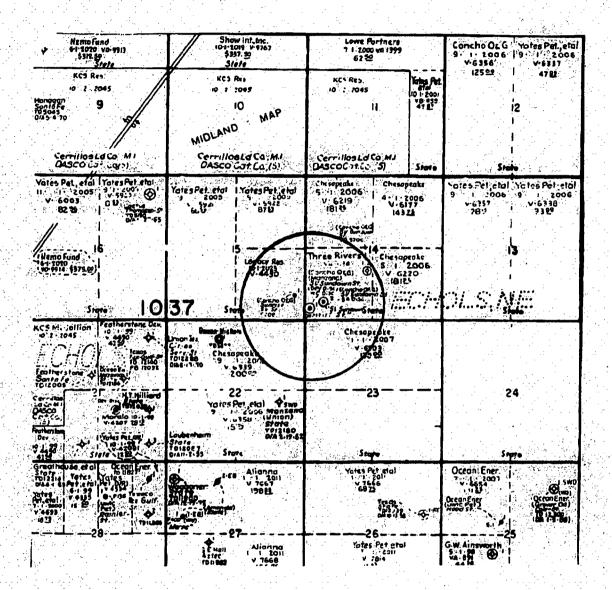
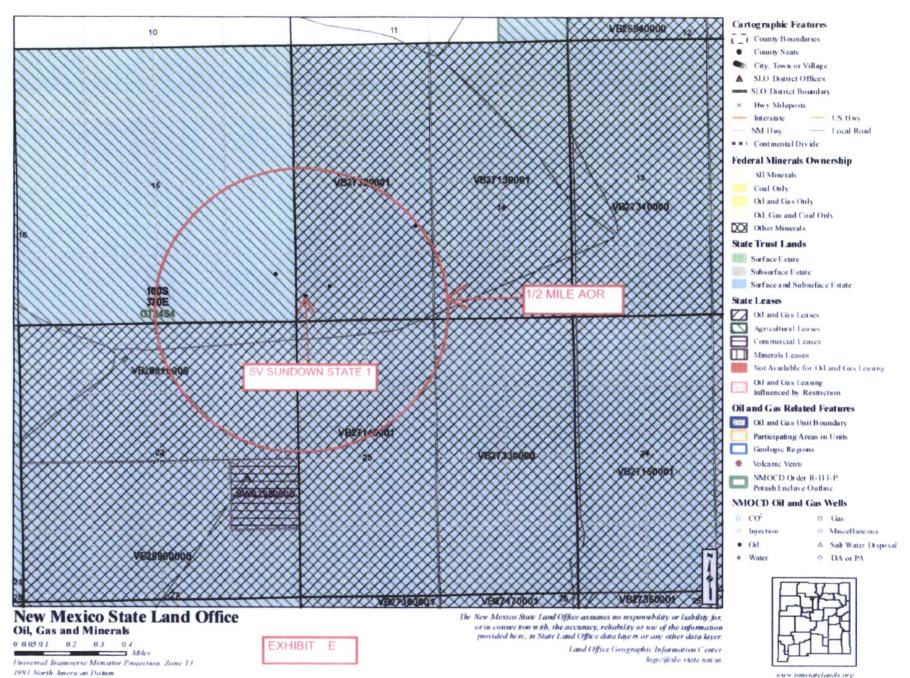
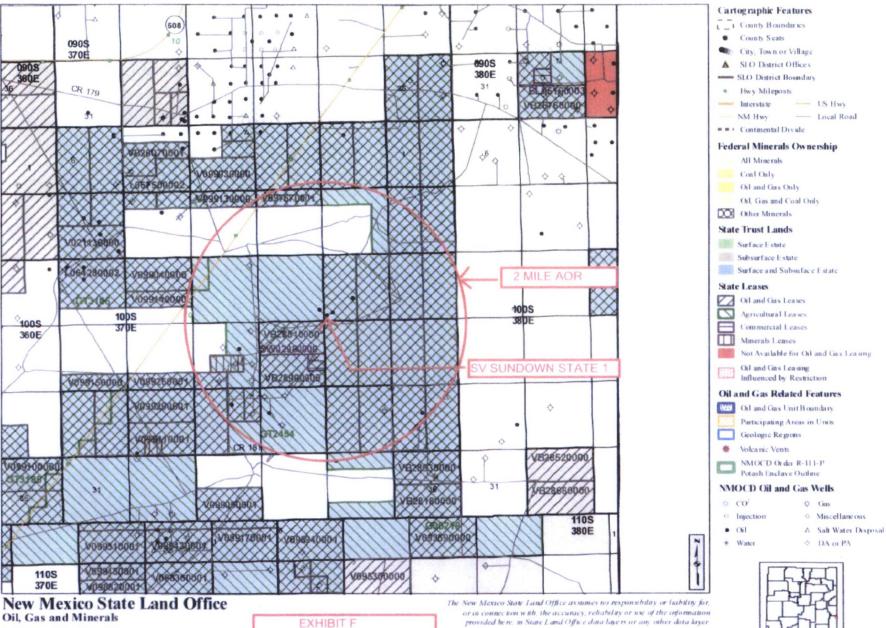


EXHIBIT E





Land Office Geographic Information Center

logica slo state.nm.us



www.nmstatelands.org

Universal Transverse Mercator Projection, Zone 13 1983 North American Datum

PERMIAN TDS, LLC

SV SUNDOWN STATE 1

477' FSL, 191' FWL, SEC. 14, T. 10 S, R. 37 E

LEA COUNTY, NEW MEXICO

30-025-32750

WELLS THAT ARE WITHIN 2,640' SORTED BY DISTANCE

WELL	SPUD	TVD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	тос	HOW DETERMAND
SV SUNDOWN STATE 1	12/11/94	12,174'	ECHOL DEVONIAN NORTHEAST	0	17.5	13.375	350'KB	350 sx	GL	CIRCULATED 85sx AT SURFACE
30-025- 32750					12.25	8.625	4,260′KB	1440 sx	GL	CIRCULATED 185 SX AT SURFACE
			v		7.875	5.5	12,140'KB	595 sx	4,918'	CALCULATED
SUNDOWN STATE 2	12/10/01	5,150′	EAST ECHOL SAN ANDRES	0	12.25	8.625	388′	250 sx	GL	CIRCULATED 70sx AT SURFACE
SV SUNRISE STATE 1	1/20/97	12,100	ECHOL DEVONIAN NORTHEAST	0	17.5	13.375	355′	350 sx	GL	CIRCULATED 25 SX AT SURFACE
30-025- 33724					12.25	8.625	4,250'	1200 sx	GL	CIRCULATED 169 SX AT SURFACE
					7.875	5.5	10,848	1400 sx	3,500'	CALCULATED
						3.5 LINER	12,040	25 sx	11,400	CALCULATED
	in S	A								
SV SUNDOWN STATE 3	6/4/02	5,200'	EAST ECHOL SAN ANDRES	0	12.25	8.625	386'	225 six	GL	CIRCULATED 5 SX AT SURFACE
30-025- 35907					7.875	5.5	5200′	730 sx	2290	CALCULATED
							5 S. S.			
									1	

EXHIBIT G

FRESH WATER CLOSEST TO SV SUNDOWN STATE # 1



EXHIBIT H

FRESH WATER WITHIN ONE MILE AOR OF SUNDOWN STATE 1

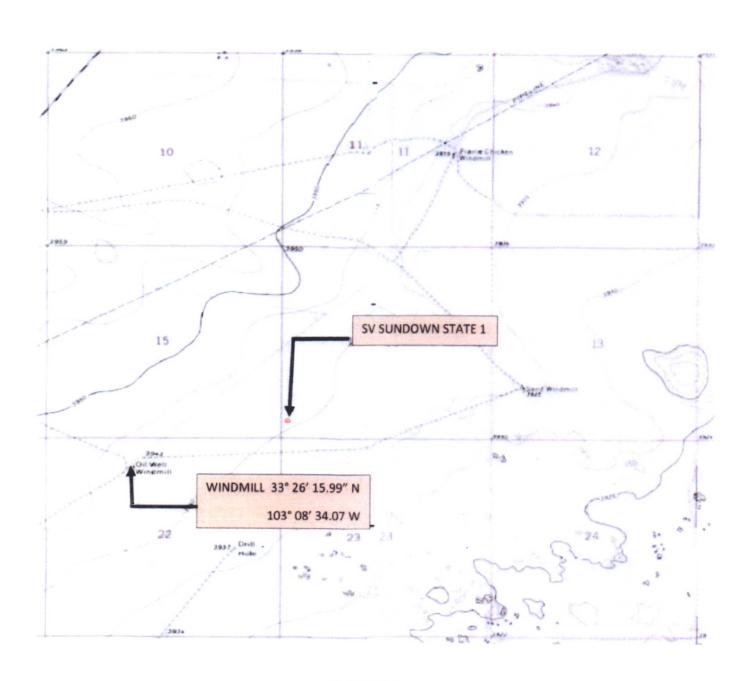


EXHIBIT I



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

(quarters are 1mNW 2mNE3mSW 4mSE)
(quarters are smallest to targest) (NAD83 UTM in meters)

No records found.

PLSS Search;

Section(s): 22

Township: IOS

Range, 376

The data is furnished by the NNOSE/ISC and is accepted by the received with the expressed understanding that the OSE/ISC make no warrorders expressed or implied, conferring the accuracy completeness, religibility assistificy or suitability for any particular purpose of the data.

4/3/17 2:55 PM

WATER COLUMN/AVERAGE DEPTH TO WATER

Exhibit I



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

No PODs found.

POD Search:

POD Basin: Lea County

PLSS Search:

Section(s): 22

Township: 10S

Range: 37E.

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

4/3/17 3:08 PM

ACTIVE & INACTIVE POINTS OF DIVERSION

EXHIBIT I

SUMMARY OF WATER ANALYSES

WELL:	SV SUNDOWN 1 DEVONIAN	MORSE 1 DEVONIAN	PEARL MARR 3 SANANDRES	FRESH WATER	
API No.	30-025-32750	30-025-04991	30-025-25881		
LOCATION	M; 14- T 10S –R 37E	E, 27 – 10S – 37E	ÑE/SE, 33- T9S – R37E	33° 26′ 15.99″ N 103° 07′ 53.01″ W	
WATER SOURCE	WELL	WELL	WELL	WELL	
BARIUM	0.00 PPM	0.00	N/A	N/A	
BICARBONATES (HCO3)	64 PPM	332 MG/L	596 MG/L	259 MG/L	
CALCIUM (Ca)	2,478 PPM	1,002 MG/L	11,022 MG/L	10 MG/L	
CARBON DIOXIDE (CO2)	N/A	N/A	N/A	N/A	
CHLORIDES (CI)	39,991 PPM	19,995 MG/L	139,968 MG/L	300 MG/L	
HYDROGEN SULFIDE (H2S)	0.00 PPM	0.00	PRESENT	0.00	
IRON (Fe)	2,500 PPM	4.00 MG/L	1 MG/L	1 MG/L	
MAGNESIUM (Mg)	1,273 PPM	304 MG/L	3,890 MG/L	6 MG/L	
MANGANESE (Mn)	N/A	N/A	N/A	N/A	
PH	5.65	7.280	5.840	≥9.090	
POTASSIUM (K)	12.0 PPM	N/A	N/A	Ň/A	
SODIUM (Na)	21,396 PPM	11,868 MG/L	71,489 MG/L	348 MG/L	
STRONTIUM (Sr)	N/A	Ñ/Ã	N/A	N/A	
SULFATE (SO4)	1,571 PPM	1,050 MGPL	1,050 MG/L	165 MG/L	
TOTAL DISSOLVED SOLIDS (TDS)	75,330 PPM	34,552 MG/L	228,013 MG/L	1,088 MG/L	
ZINC (Zn)	N/A	N/A	N/A	N/A	

HE WESTERN COMPANY OF NORTH AMERICA WATER ANALYSIS

GENERAL INFORMATION	
the action of the second of	.EE 2-5556
SAMPLE DESCRIPTION: MORNING SAMPLE	Eq 14 190 = 1
PHYSICAL AND CHEMICAL DETERMINATIONS	
SPECIFIC GRAVITY: 1.050 @ 62 °F PH: 5.65 RESISTIVITY (CALC.): .095 OHMS @ 75 °F	
ON (FE++): 2500 PPM SULFATE:	1571 PPM
2467 PAM TOTAL HARDNESS:	11905 PPM
MAGNESIUM: 1273 PPM BICARBONATE: CHLORIDE: 39991 PPM SODIUM CHLORIDE (CALC)	
SODIUM+POTASS: 21398 PPM TOT DISSOLVED SOLIDS: H2S : NON	75330 PPM
REMARKS: 3PM SAMPLES DID NOT HAVE ENOUGH WATER FOR ANALYS	IS.
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40 30 20 10 0 10 20 30 40 50

ANALYST MIKE LEE

Permian Treat:

Oil Co. : Leane : CW Trainer Well No : Morse #1 Sw/N	DOVON1911 Sempl Date W Sec 27-1105-137 E Date	e Loc. Analyzed: 04-		6	
	Sw/Nw Sec 27-105-137E Date Sampled				
4. Hydrogen Sul 5. Carbon Dioxi 6. Dissolved Ox Cations	fide Not I de Not Dete	recent ruined ruined			
7. Calcium 8. Magnesium 9. Sodium 10. Barium	(NA') (Calculated)	11,869	20.1 = 12.2 = 23.0 =	\$2.85 516.04	
11. Hydroxyl 12. Carbonate 13. Bicarbonate 14. Sulfate 15. Chloride	\HCd.2)	332 /	17.0 - 30.0 - 48.8 - 35.5 -	5.43	
17. Total Iron 18. Total Bardne 19. Resistivity	lved Solids (Fe) ess As CaCO; E 75 F. (Calculated) O	34,552 .235 /cm.	ing a series and each	50 - 10 km 1 k	ĭ-AW
Co. CW Trainer Date Analysed C4-Famuary-1996 Date Analysed Date Date Date Analysed Date Date Da	K -meq/L =	mg/L.			
Na Billia Billia	111111 11111 C1	Ca(HCO ₅) ₃	81.04	5.43	
。 李月子李朝 李 秦 [4] 李静宗:					
		V 187		$x = \frac{1}{2} \left(\frac{1}{2} \frac{\partial}{\partial x} \right)$	
10000 1000 100 10	10 100 1000 10000				
Calcium Sulfate	Solubility Profile				
3330					
				0.00	0
****			58.46	S15.42	30,131
This vater is mild! The corrosivity is	v corresive due to the n	H observed	on analys	1 € 1 0 577 (1077)	15 . I .

Comparison Between Two Waters

04-January-1996

TO: Permian Treating Chemicals Company : Devon Energy

Morse #1 (Devenien Kfr.)

Sample # 2 Harr #3/San Andros wife

Percer			TDS	7.4 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	Saturat	ion Index	Calcium Sulfato
#1 &	∦ 2√	Hq	mg/L	SpGr	880°F.	@140°F.	Scaling Potential
100 -	0	7.280	34,552	1.028	+0.336	+1.140	nil
95 -	5	7.208	44,225	1.034	+0.281	+1.120	N11
90 ~	10	7.136	53,898	1.041	+0.246	+1.027	NII
85 -	15	7.064	63,571	1.047	+0.229	+0.967	Nii
BO -	20	6.992	73,245	1.053	+0.305	+1.056	Vil
75 -	25	6.920	82,918	1.060	+0.368	+1.132	Nil
70 -	30	6.848	92,591	1.066	+0.422	+1.198	Nil
65 -	35	6.776	102264	1.072	+0.469	+1.257	NII
60 -		6.704	111937	1.079	+0.509	+1.311	Nil
55 -	45	6.632	121610	1.085	+0.545	+1.359	หัววิ
50 -	50	6.560	131284	1.092	+0.577	+1.404	vil.
45 -	55	6.488	140957	1.098	+0.605	+1.445	NII
40 -	60	6.416	150630	1.104	+0.631	+1.483	NII
,35: -	65	6.344	160303	1.111	+0.654	+1.519	NII
30 -	70	6.272	169976	1.117	+0.675	+1.553	Marginal
25 -	75	6.200	179649	1.123	+0.694	+1.584	Marginal
20 -	80	6.128	189322	1.130	+0.711	+1.614	Manadas
15 -	'8 5	6.056	198996	1.136	+0.726	+1.642	Marginal
10 -	90	5.984	208669	1.142	+0.740	+1.669	Marginal
· 5, ÷		5.912	218342	1.149	+0.753	+1.694	Marginal
0 -	100	5.840	228015	1.155	+0.765	+1.718	Marginal Marginal

DATE-TAKEN 01-26-96		
REMARKS Devonian Formation		
Total And Control (1997年) (1997年) Maria Maria Maria Carlo (1997年) (1997年)		
Sarium as Ba	0.00	
Carbonate alkalinity PPM	07	
Bicarbonate alkilinity PPM	64	
oH at Lab	6.15	
Specific Gravity @ 60° F	1.042	
Magnesium as Mg	3,422	
Total Hardness as CaCO3	5,900	
Chlorides as Cl	25,063	
Sulfate as SO4	2,875	
ron as Fe	72.50	
Potassium	12.00	
Hydrogen Sulfide	0.00	
Resistivity Ohms	0.2490 25.7°	<u>C </u>
Total Dissolved Solids	42,250	
Calclum as CA	2,478	
Nitrate	22.00	
	The Control of the Co	
Results reported as Parts per Million unl	ess stated	
	14일 : 적인 <u>사</u> 합 : : (- , - :) : :	
Langelier Saturation Index	-0:69	

Analysis by Vickie Walker
Date: 01-31-96

Permian Treating Chemicals

SAMPLE SAN AND LE	IS RE	PORT		
Oil Co. Coastal Oil & Gas Sam	42.5 <u>71</u> 5.	94-Jasuasy-1))6	
1. pH 2. Specific Gravity 60/60 P. 1.153 3. CACO, Saturation Index 8 140 P. +0.	338			
Pissolved Gasses 4. Rydrogen Sulfide 5. Carbon Dioxide Not Det 6. Dissolved Oxygen Not Det Cations	Prosent ermined corsined	EQ. WY.	-RBO/L	
7. Calcium (Ca.:) 8. Magnesium (Ma.) 9. Sodium (NA.) (Calculated) 10. Barium (Ba.)	11,022 71,160 ermined	/ 20:1 = 1 / 12:2 = 1 / 23:0 =	\$48.36 3,108:33	
Anions 11. Hydroxyl (OMT) 12. Carbonate (CO) 13. Bicarbonate (HCO) 14. Sulfate (SO) 15. Chloride (CI)	596 139,958	17.0	0.00 0.00 9.75 21.75 3,942.76	
16. Total Dissolved Solids 17. Total Iron (F8) 18. Total Hardness As Cacos	228,015	/ 18.2 =	0.05	
LOGARITHMIC WATER PATTERN	COMPOUND	BLE MINERA EQ. WI.	I COMPOSI	TION Eng/L.
Na 11111 1 11111 C1	Ca(HCO ₃)	2 81.04	9.75	791
Ca Billi Milli Billi 1 1) III TILL TILL THE THE SCO		68.07	21.52	1,465
Mg multi withs with mills 1100 1100 1100 1100 Soe	CaCl ₂	55.50	517.09	28,698
10000 1000 100 10 1 10 1000 1000 1000	Mg(HCO ₃)		0.00	0
Calcium Sulfate Solubility Profile	MgSO,	60.19 47.62	反射法 强迫的	0
A Communication of the Communi	MgCL ₂ NaHCO ₃	84.00	0.00	15,184
	Naso ₄	71.03		0
	NaCl	1.0%	3,106.82	181,625
This water is somewhat corrosive due to the The corrosivity is increased by the content of H2S in solution.	NU ABBATH	i Equivale ed on anal l selts, a		× 41.1

Permian Treating Chemicals

WATER ANALYSIS REPORT

Oil Co. : Devon Energy Lease : CW Trainer Well No.: Fresh Water Well

Hydrogen Sulfide

Salesman:

Sample Loc. : Date Analyzed: 04-January-1996 Date Sampled :

EQ. WI.

ANALYSIS

2. Spe	cific Gra	vity 60	/60 P	9.	090	
3. Cac	cific Gra 0, Satura	tion Inc	iex 0	80 F.	٠ <u>٠</u> ٠٠.	906
	얼마 생활하다		6, 1	40 F.	+1.	606
Disso	lved Gass	28	-:	1. A.		M

6. Dissolved Oxyg	en	•	Not Dete	ermined ermined	Knoll.				
<u>Cations</u>									
7. Calcium (C. 8. Magnesium (M. 9. Sodium (N. 10. Barium (B.	a;;} a;;} a+;}	(Calcula	ted) Below	10 6 34B 10 (6)	1	20.1 12.2 23.0	= = •	0 0 15	.50 .49 .13
Anions									
12. Carbonate (13. Bicarbonate (H	03 ⁻) 003 ⁻)			77 259 165	1	17.0 30.0 61.1 48.8		0243	· 00 • 57 • 38 • 38

15. Chloride (Cl.)	165 300	/ 48.8 / 35.5	=	3.38 8.45
16. Total Dissolved Solids	1,088	/ 10 3	_	0.05
17. Total Iron (Fe) 18. Total Hardness As CaCO: 19. Resistivity 0 75 F: (Calculated)	50 2.963 /cm	/ 18.2		0.09

LOGARITHMIC NATER PATTERM	PROBABLE MINERAL COMPOUND EQ. WT. X	COMPOSITION BOOK.
Na thirt thirt thirt thirt Links thing thing thing Cl	Ca(HCO ₃) ₂ 81.04	0.50 40
Ca BHIT WHITE BHITE THE THE THE HCO3	CaSO ₄ 68.07	0.00
Mg MHT WHITE MAINT WHITE THE THE THE SOA	CaCl ₂ 55.50	0.00
Fe will dim with the cos 10000 1000 1000 1000 1000 1000 1000 1	Mg(HCO ₃) ₂ 73.17	0.49 36
Calcium Sulfate Solubility Profile	Mg90 ₄ 60.19	0.00 0
470	MgCL ₂ 47.62	0.00
	NaHCO ₃ 84.00	3.25 273
	NaSO ₄ 71.03	3.38 240
	NaCl 58.46	8.45 494

This water is somewhat corrosive due to the pH observed on analysis.

The corrosivity is increased by the content of mineral salts in solution.

EXHIBIT "H"

זואו בעיריבוו

XII.

I, Eddie W. Seay, have examined all available geologic and engineering data pertaining to the SV Sundown State #1 and have found no evidence of open faults or any other hydrologic connection between the disposal zones and any underground source of drinking water.

Eddie W. Seay

EXHIBIT J

QUANTERNARY FAULTS OVER 120 MILES AWAY

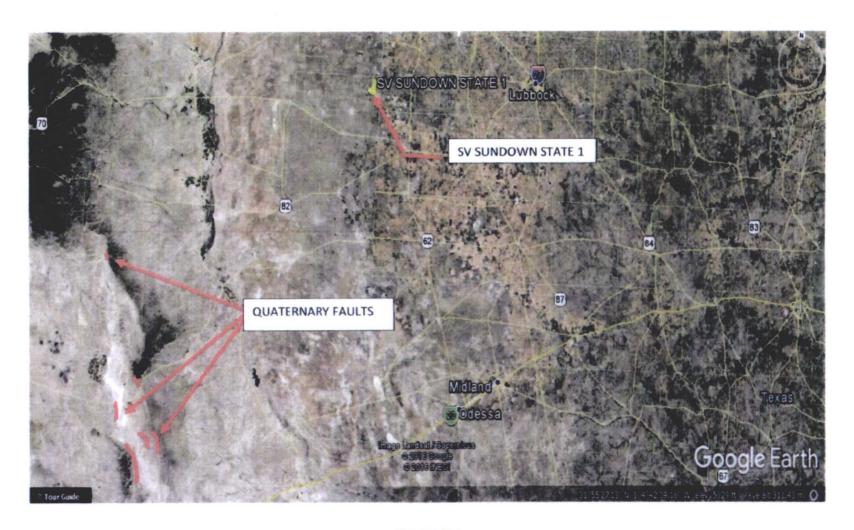
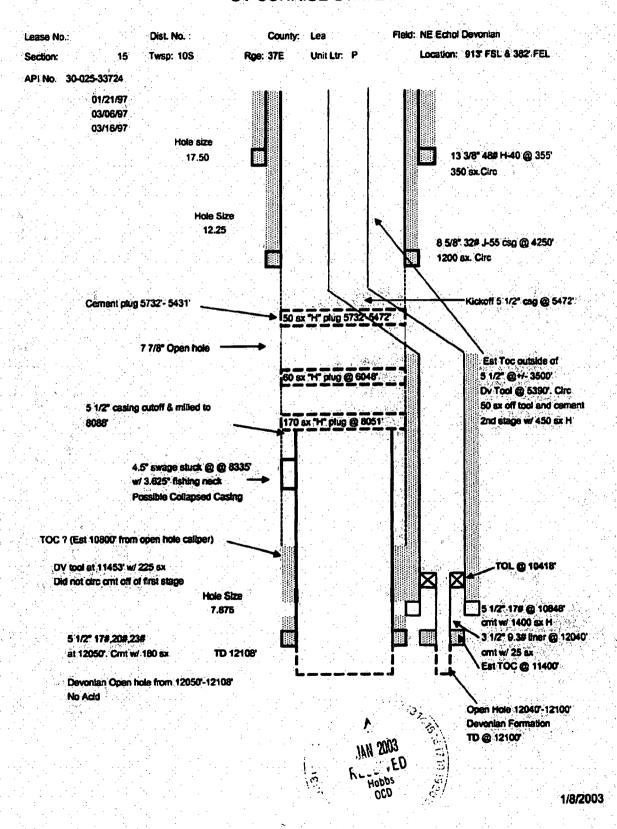


EXHIBIT J

SV SUNRISE STATE #1



1		Empire			5			3.	Well ID Info:	19. 10. 1 A. 1	-	2
## Using Detail (Top to Bottom) ## Vulning Detail (Top to Bottom) ## Personal Professor Despite ##		Experience September 1997	2 2 2		191	₹ -":-	75.74	315	API No:	30-025-35597		<u> </u>
## 133 Section Section	on i	14 anna				430	XF.	KII.	Spari Date	12/10/2001	7 (1)	7
Edy County, INA Elwinon	ship.	103 (Sept. 12) 11 (Sept. 18-2) 11 (Sept. 18-2)	11/11/4			7	19.		공기 (*)	- 1.5	17 27 2	,
See Description Format is See Description Form	¥250	37E - Red Control of the Control of		C 1997.	. #			À N			··	
Second S	<u>y</u> [Eddy County, NM		* *** / ·				1 12	Corr	0-58/FT 240		
STOT A TURNING DEATH IT GO TO BOTTOM PORCESSION JAMES OF A SOUTH OF THE STOTE OF				1 13 22		j. 123	<u> </u>		Set (9			e 110
STOT A TURNING DEATH IT GO TO BOTTOM PORCESSION JAMES OF A SOUTH OF THE STOTE OF					~ NO	<u>v</u> ≘	3 9	K B	Cameni w		C	
STOT A TURNING DEATH IT GO TO BOTTOM PORCESSION JAMES OF A SOUTH OF THE STOTE OF	/2001		Color 1	1-7 Y-4		200	تحت	P 63	Circ:	Surface		<u> </u>
TOC on CIBPConvert at 4915 Road Detail (Top to Bottom) Road Detail (Top to Bottom) To Description To Descr	13710	TA Last engine in the information of the first open and the first open	7	597.4	- 7	-		$\boldsymbol{\nu}$		•	1. 1	- (j. 1
TOC on CIBPConvert at 4915 Road Detail (Top to Bottom) Road Detail (Top to Bottom) To Description To Descr		de se			1			11				
TOC on CIBPConvert at 4915 Road Detail (Top to Bottom) Road Detail (Top to Bottom) To Description To Descr		The first control to the control of	A 150 1 A 171		7 - 1	-		-		1.0		
Description Footsque 2.78° BP @ 4,000 on EOT 3.5057 Red Bertell (Top to Bottom) To Vulving Betell (Top to Bottom) To Specifylian Footsque Processes Red Detail (Top to Bottom) Footsque F		tal of sufficient of a model Current sale of the	. #					11			11.5	1.
2.7/6" Dig 4,000 on EOT	100	Tubing Detail (Top to Bottom)	165 2 36 3	A		1	1000					
7.7 If P @ 4,500 on EOT	rts .				35		•		1		. **	÷ .
Rod Detail (Top to Bottom) ** **Tubing Detail (Top to Bottom) ** ** **Tubing Detail (Top to Bottom) ** ** ** ** ** ** ** ** **						क्षा े	20 TH	REF.	TOC @ 1364	2.4		
Rod Betal (Top to Bottom) ** **Tubing Datasi (Top to Bottom) ** **Forting Datasi (Top to Bottom) ** ** **Forting Datasi (Top to Bottom) ** ** **Forting Datasi (Top to Bottom) ** ** **Forting Datasi (Top to Bottom) ** **Forting Datasi (Top to Bottom) ** ** **Forting Datasi (Top to Bottom) ** ** **Forting Datasi (Top to Bottom) ** ** ** ** ** ** ** ** **	7	druger in a list of the manufacture and list in the con-			30.00	(A)				1		
Rod Betall (Top to Bottom) 15		the regardance causes, leaving to the			40		146	3			1.	-:
Rod Betall (Top to Bottom) 15	, early	each element services and a	13° 2		51.1	11	c⊁® _a ,	2		1.7		, ' '
Rod Detail (Top to Bottom) Bearrydon Footing Depth Tubing Detail (Top to Bottom) Tubing Detail (Top to Bottom) Baserpoton Footings Depth Total Description Footings Depth Total Con CBPC Breat at 4915 CBP top @ 49507 San Andrea	-1	and states and the second	1.0		(3	¥1]	1 4 T	i iii				٠٠
Red Betal (Top to Bottom) Footing Depth Tubing Detail (Top to Bottom) Tubing Detail (Top to Bottom) Toting Detail (Top to Bottom) Footing Depth Footing Depth Footing Depth Toting Detail (Top to Bottom) Footing Depth Footing Depth Tot on CEP Convent at 4915 CEP top @ 4950 Each Andres 4,807-5,012 Actions in 6,000 pd 15% Frac of 107,448 gain,172,9679 sand Footing Depth Tot on CEP Convent at 4915 CEP top @ 4950 Each Andres 4,807-5,012 Actions in 6,000 pd 15% Frac of 107,448 gain,172,9679 sand Frac of 107,448 gain,172,9679 sand		Transport See Burt 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	+	23.00	4	胡	5 g : A					
Toc or CBPComent at 4915 CBP top dt 4950 Sen Andrea 4, 4960 Sen Andrea 4, 4960 Set @ 5160 Centern at 1220 BM CLASS C	- 2	N. S. M. (1977) 1977 A. (1977)	1 6	A	14	11		開		4 Tu 4 Tu		1
Toc or CisPComment at 4915 Captan de April 172 (1974) Sept. 172 (1974) Sep	25 -	Rod Detail (Top to Bottom)		gen and great				W				
Tot on CitipComment at 4915 Roo Destriction Roo Destric	nts ·	A CONSTRUCTION Description of the description	Footage		3.5	剧		H				
Tot on CEPComent at 4915 CEP top 6 9950 Sen Andres April 170, 48 gets 177, 488 gets 172, 19679 sand Contain at 4917 CEP top 6 9950 Sen Andres 4,995-0,012 Actioned wit 0,000 get 15% Frac of 107,448 gets 172,19679 sand Contain at 4,915 CEP top 6 9950 Sen Andres 4,995-0,012 Actioned wit 0,000 get 15% Frac of 107,448 gets 172,19679 sand Contain at 4,915 CEP top 6 9950 Sen Andres 4,995-0,012 Actioned wit 0,000 get 15% Frac of 107,448 gets 172,19679 sand Contain at 1,330 BM CLASS C	7	PARTICIPATE CONTRACTOR OF THE SECONDARY	. N. of 3		3.55	1		闍				
Tubing Detail (Top to Bottom) Red Detail (Top to Bottom) Red Detail (Top to Bottom) Red Detail (Top to Bottom) Some Process Footsps Description Footsps Description Footsps Copp top @ 4950 San Andrea 4,990 -0,012 Actigate of 6,000 pd 15% Free of 107,448 gain,172,9679 sand Cop S-1,67 13.56/1-28 Get @ 5,157 Coption of 1,210 BX CLASS C		#### \$55 T #11		200 1000		3		HH.			1.1	
Tubing Detail (Top to Bottom) Red Detail (Top to Bottom) Red Detail (Top to Bottom) Red Detail (Top to Bottom) Some Process Footsps Description Footsps Description Footsps Copp top @ 4950 San Andrea 4,990 -0,012 Actigate of 6,000 pd 15% Free of 107,448 gain,172,9679 sand Cop S-1,67 13.56/1-28 Get @ 5,157 Coption of 1,210 BX CLASS C	77.	Carrier of the state of the	0.7 (0.7)	1	33.74	9	TO SE					- 11
Total from Detail (Top to Bottom) 19		CONTROL OF STATE OF S		,	437	NE.	50		a tarah	1. 1.	100	
Tubing Detail (Top to Bottom) Table Description Footage Depth Footage Depth TOC on CBPC amount at 4915 CBP top @ 4950 Sen Andrea 4,866 3-012 Actisted of 6,000 pet 15% Frac at 107,448 gath,172,9579 sand		Service for the section of the secti	s	والأضور والمأو	100	MI O		EII .				
Tubing Detail (Top to Bottom) Red Detail (Top to Bottom) Red Detail (Top to Bottom) Red Detail (Top to Bottom) South Section (Top to Bottom) CISP to G 4950 Sen Andres 4,996'-5,012 Actilized of 8,000 get 15% Frac of 107,446 gets, 172,9679 sand Cisp Si 107, 15 59 (-55) Set @ 5,117 15 59 (-55) Centern vid 1,230 St CLASS C		2-9 1- 200 2 Kill 200 2 - 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			أدريون	\mathbb{R}^2	-	個.	e t		100	
Tubing Description Footbal		a the state of the		1/12	1860	<u> </u>	2 2000	F.A	·	41.4	1.	
Tubing Description Footbal	a 171	with the state of		<u> </u>	- 4		. 19	KU.			4	:
Rod Detail (Top to Bottom) Rod Description Rootage Depth TOC on CIBPC stream at 4915 CIBP top @ 4950 Sen Andras 4,995-5,012 Actilized at 8,000 get 15% Frac at 107,446 gets, 172,9579 sand		Yubing Detail (Top to Rottom)			1	17	3 26	19				
## Road Detail [Top to Battom] ## Description Footage Depth ## CIBP top @ 4950* ## Sen Andrea ## Addition of \$0,000 pat 15% ## Frace of 107,448 gath,172,9579 sand ## City 5,172 15 59 4,65 ## Bet @ 5,150 ## Camera will 1,200 BU CLASE C	nts :	ARTHUR A TOUR A Description 1997 Lo.	I Footege	Depth					ri in taga			11.4
Rod Detail [Top to Battom] Rod Detail [Top to Battom] Footage Dapth	a	"我都想到我们还是,没有比较多一点。""这一点,你说。			. 178				. * * * .			
Red Detail (Top to Bottom) Into Secretarities Red Detail (Top to Bottom) Red Description Red Descri		19th of the later	100		3.3	3						·` .
Red Detail (Top to Sections) Reservation Rectage Depth Tot on CIBP Comment at 4915	74. 9	MARKET A STATE OF THE ARREST OF THE STATE OF										. : :
Rod Detail (Top to Bottom) No Description Footage Depth TOC on CIBP Comment at 4915 CIBP top @ 4950* Sen Andrea 4,980*5,017 Actisted at 6,000 gal 15% Frac at 107,448 gath,172,9578 sand Comment at 1,230 St CLASS C	100	8 115 13 2 Mt. 31 2 2	20.00						77,7			
Rod Detail (Top to Battom) **Rod Detail (Top to Battom) **Description Footage Depth **Separation		. White and the second of the	* * **********	21 1 14		30		[2]		ta a ta a		
Rod Detail (Top to Bottom) Into Description Sectage Depth CISP too @ 4950* Sen Andrea 4,986-5,012 Actisted wit 8,000 get 15% Frac wi 107,445 gets, 173,9679 sand	1	Zerty de la Maria de la Companya de			1000	繼	1.					:
Roo Detail (Top to Bottom)		The Control of the Co	-			HH .						
Root Description	-	The first of the second of the	3 32		l Ta	TXI .				. 5 - 1131		
TOC on CIBPC street at 4915	-	Red Detail (Top to Bettern)	9 1 1 1 1 1 1 1 1					ť.				
TOC on CIBPC stream at 4915 CIBP top @ 4950* Sen Andrea 4,980*-5,012 Actisted at 6,000 gat 15% Frac at 107,448 gath,172,9578 sand Cup. 5,172*15.56*U-55 Set @ 5,165* Center at 1230 St CLASS C	ntə		Footage			1 2		172		No. of the con-	1.	
TOC on CBP Comment at 4915 CBP top (0) 4950 Sen Anticare at 49.00 gat 15% Actitated at 9.000 gat 15% Frac at 107,446 gats, 172,9579 sand Ceq. 5-1/2* 13.56* J-65 Set (6) 5-156* Centart will 1,230 St CLASS C	. ". uj	TO YOUR TO BE LOW TO BUILD AND A CONTROL OF THE	5,000,75			M ·		M.			.:	.:
CISP top @ 4950* Seen Andres 4,995*-5,012* Addison \$6,000 pat 15% Frac of 107,448 gath,172,9076 send Cop. 5-1/2* 15.56 U-55 Set @ 5,150* Committed 1230 SU CLASS C	/ .	the state of the s		with a	1 1.7%		28.54.25.	捌				
Sen Antres 4,997-5,012 Actilized of 6,000 pet 15% Frac of 107,448 gats, 173,9579 sand Ceq. 5-1/2-15.56'-68 Set @ 3,150' Censant wil 1230 SUCLASS C			g jaka	1	14.50	100		叫	100 on CB1	Coment et 49!!	7	÷.
Sen Andres 4,987-5,017 4,987-5,017 Actistend or 5,000 gat 1,5% Frac or 107,448 gats,172,9579 sand Chy. 5,172 15,59 U-65 Set (6) 5,165 Central vid 1,230 SU CLASS C	1 2	The second of th	727					144				1.1
Actiste of 6,000 pat 15% Frac of 107,448 gats, 172,9579 sand Cop. 5-1/2-15.56 (-85 Set @ 5,150 Comment wit 1230 SX CLASS C	- 12	Display Carlot Barrier Street Control of the Contro	1			23	4 A.			, · · · · ·	1.	2
Frac of 107,448 gats,172,9676 send Cop. 5-1/2* 15.56 U-55 Set (a) 5,166 Comment wid 1230 SU CLASS C				272.72]	3.	·		4,995-5,012			.,*
Cng. 5-1/2* 15:56* L-65 Set (B) 5,150* Committed 12:00 EX CLASE C			186	. 13: 1	- 100	=			Acidized w/ 8	.000 per 15%		
Set @ 5,160 Comment of 1200 BX CLASS C		and the second of the second o	.:			Ľ81	, i 38	13	F(BC 46 107,4	no gas .\173,98	14 29/40	
Set @ 5,160 Comment of 1200 BX CLASS C					, r .	脳	÷ ;	100		1.		,
Set @ 5,160 Comment of 1200 BX CLASS C				.,	4, 21	1			Cep.	5 1/2" 15 56	I-65	1
			100			111		1991	Set @	5,150		
All Daily Grant Circ. none			, 1		i in		v. 1.35		Cement w		S8 C	1.7
NAME OF THE PROPERTY OF THE PR				100	100	19	TERMS -		CITE,	none at the		حنبت
						Kaff.	HERINAME	May .			, in the second	

Hat 33.4417038 Havg - 103.1291455



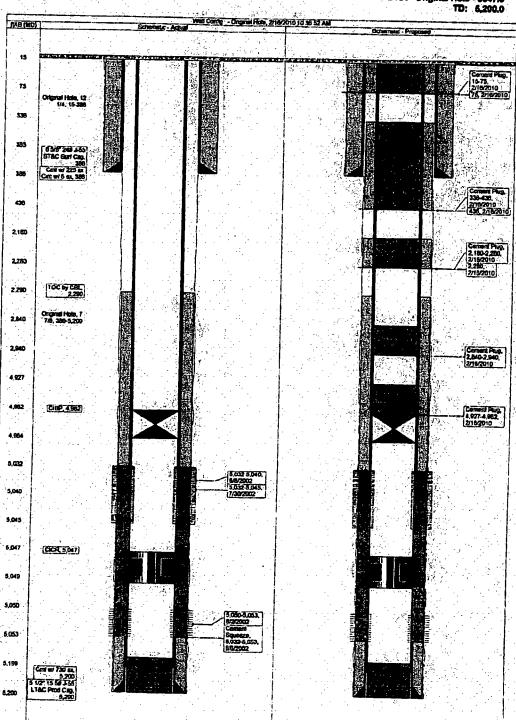
P&A Proposal

SUNDOWN STATE 3

Fleid: East Echol San Andres

County: LEA State: NEW MEDICO Location: SEC 14, 108-37E, 1799 FSL & 2310 FWL Elevation: GL 3,937.00 KB 3,952.00 KB Height: 15.00

Spud Date:: 6/8/2002 Initial Compt. Date: API 9:: 3002535907 CHK Property 5: 389889 1st Prod Date: PBTD: Original Hole - 5047.0 TD: 6,200.0



NOTICES

SURFACE OWNER AND MINERAL INTEREST OWNER

State of New Mexico State Land Office 310 Old Santa Fe Trail Box 1148 Santa Fe, NM 87504

OFFSET OPERAORS

None

OFFSET MINERAL INTEREST OWNER

State of New Mexico State Land Office 310 Old Santa Fe Trail Box 1148 Santa Fe, NM 87504

OFFSET LEASEHOLD OPERATOR

Apache Corp. 2000 W. Sam Houston Pkwy #20 Houston, TX 77042

LEGAL NOTICE

Pursuant to the rules and regulations of the Oil Conservation Division of the State of New Mexico, Permian TDS, LLC, Box 788, Lovington, NM 88260, is filing a C-108 Application for Salt Water Disposal. The well being applied for is the SV Sundown State #1, API 30-025-32750, located in Unit M, Section 14, Township 10 South, Range 37 East, Lea Co.; NM. The injection formations are the Devonian, Silurian and Fusselman from 12140' to 12700' below surface. Expected maximum injection rate is 15,000 bpd., and the expected maximum injection pressure is 2500 psi or what the OCD allows: Any questions about the application can be directed to Eddie W. Seay, (575)392-2236, or any objection or request for hearing must be directed to the Oil Conservation Division, (505)476-3440, 1220 South Saint Francis Drive, Santa Fe, NM 87504, within fifteen (15) days.

PERMIAN TDS, LLC

RE: SV Sundown State #1 (API 30-025-32750) Unit M, Sect. 14, T. 10 S., R. 37 E. Lea County, NM

Dear Sir:

In accordance with the Rules and Regulations of the Oil Conservation Division of the State of New Mexico, you are being provided a copy of the C-108, Application for Authorization to Inject into the above captioned well to be drilled.

Any questions about the permit can be directed to Eddie W. Seay, (575)392-2236. Any objections or request for hearing must be filed with the Oil Conservation Division within fifteen (15) days from the date received. The OCD address is 1220 S. Saint Francis Drive, Santa Fe, NM 87504, (505)476-3440.

Thank you,

Eddie W. Seay, Agent Eddie Seay Consulting 601 W. Illinois

Hobbs, NM 88242 (575)392-2236

seay04@leaco.net

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Heturn Receipt (electronic) Return Receipt (electronic) Certified Mail Restricted Delivery Adult Signature Required Adu	Postmark
Certified Mali Restricted Delivery	77 4 2/j Here
Adult Signature Restricted Delivery \$	
Postage \$6.65	
Total Postage and Fees	PS 8821 2017
\$12.75	The Late of the La
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Sent To N M S L O Street and Apt. No., or PO Box No.	
Career and Apr. No., or PO Box No.	
City, Gaile, ZIP+4 This This Color	01/
PS Form 3800, April 2015 PSN 7530-02-000-9047	See Reverse for Instructions
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Agent Agent Addressee	Attach this card to the back of the mallpiece, or on the front if space permits. 1. Article Addressed to: State of New Mixico State Land Office	B. Received by (Printed Name) D. Is delivery address different from item Yes If YES, enter delivery address below: No
	310 Old Santa FeTrail BOX 1148 Santa Fe, NIV 87504	3. Service Type ☐ Certified Mail® ☐ Priority Mail Express™ ☐ Registered ☐ Return Receipt for Merchandise ☐ Insured Mail ☐ Collect on Delivery 4. Restricted Delivery? (Extra Fee) ☐ Yes
	2. Article Number (Transfer from service label) PS Form 3811, July 2013 Domestic Retu]

Affidavit of Publication

STATE OF NEW MEXICO)
) ss
COUNTY OF LEA)

Joyce Clemens being first duly sworn on oath deposes and says that she is Advertising Manager of THE LOVINGTON LEADER a thrice a week newspaper of general paid circulation published in the English language at Lovington, Lea County. New Mexico: that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled Legal Notice was published in a regular and entire issue of THE LOVINGTON LEADER and not in any supplement thereof, for one day(s), beginning with the issue of April 20, 2017 and ending with the issue of April 20, 2017.

And that the cost of publishing said notice is the sum of \$ 26.35 which sum has been (Paid) as Court Costs.

Joyce Clemens, Advertising Manager
Subscribed and sworn to before me this
25-15 day of April , 2017.

Gina Fort
Notary Public, Lea County, New Mexico
My Commission Expires June 30, 2018



Legal Notice

Pursuant to the rules and regulations of the Oil Conservation Division of the State of Session New Mexico, Permian TDS, LLC, Box 788, Lovington, NM 88260, is filling a C-108 Application for Salt Water Disposal. The well being applied for is the SV Sundown State #1, API 30-025-32750, located in Unit M, Section 14, Township 10 South, Range 37 East, Lea Co., NM. The injection formations are the Devonlan, Silurian and tached, Fusselman from 12140' to 12700' below surface. Expected maximum injection rate is 15,000 bpd., and the expected maximum injection pressure is 2500 psi or what the OCD allows. Any questions about the application can be directed to Eddie W. Seay, THE Conservation Division, (505)476-3440, 1220 South Saint Francis Drive, Santa Fe, NM in any 87504, within lifteen (15) days.

Published in the Lovington Leader April 20, 2017.

PERMIAN TDS, LLC

RE: SV Sundown State #1 (API 30-025-32750) Unit M. Sect. 14, T. 10 S., R. 37 E. Lea County, NM

Dear Sir:

In accordance with the Rules and Regulations of the Oil Conservation Division of the State of New Mexico, you are being provided a copy of the C-108, Application for Authorization to Inject into the above captioned well to be drilled.

Any questions about the permit can be directed to Eddie W. Seay, (575)392-2236. Any objections or request for hearing must be filed with the Oil Conservation Division within fifteen (15) days from the date received. The OCD address is 1220 S. Saint Francis Drive, Santa Fe, NM 87504, (505)476-3440.

Thank you,

Eddie W. Seay, Agent Eddie Seay Consulting 601 W. Illinois Hobbs, NM 88242

(575)392-2236 seay04@leaco.net

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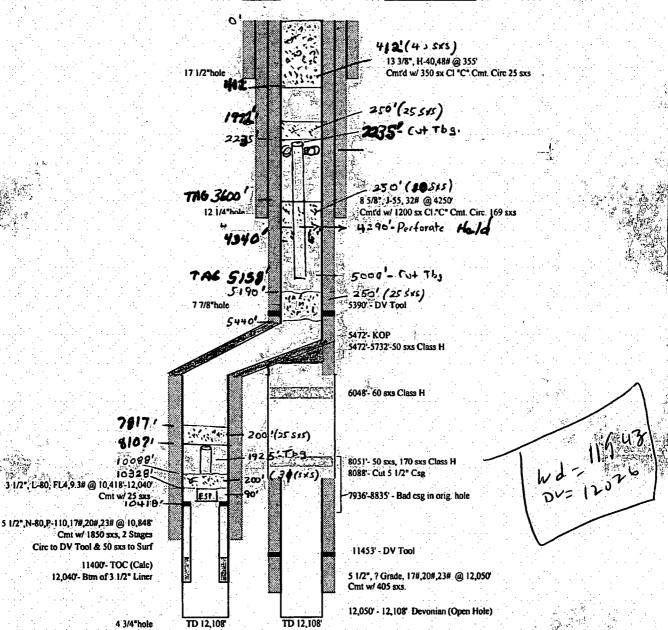
Section 1.00 1.0	Submit I Copy To Appropriate District Office	State of New Mexico	Form C-103
Disside 1-0753748-1283 30-025-33724 33-025-3	District I - (575) 393-6161		Revised July 18, 2013
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05/25/16 RU Rotary Wire Line. Cut 2 7/8 tbg and ESP cable @ 6925'. RIH w/ wireline. Tagged tbg and ESP @ 10100. RU Cuddicoiled tbg. RIH w/ coiled tubing to 10328'. Spotted 31 sx class H cement @ 10328-10088'. POH w/ coiled tbg. 05/25/16 Tagged plug @ 10032'. RIH w/ cutter and cut 2 7/8 tbg @ 5000'. RIH w/ coiled tubing to top of fish @ 8107'. Circulate 65 bbls of MLF. Spot 25 sx class H cement @ 8107-7817. Pulled coiled tubing to 5440'. Spotted 25 sx class C cement @ 5440-5187. POH w/ coiled tbg. WOC. Tagged plug @ 5158'. Perfd 2 7/8 & 5 1/2 csg @ 4290'. Pressured up on perf. RIH w/ coiled tbg to 4340'. Spotted 10 sx class C cement @ 4340-3934. POH w/ coiled tbg. WOC. 05/27/16 Tagged plug @ 3600'. Cut 2 7/8 tbg. @ 2235' & pulled 2 7/8 out of hole. RIH w/ tbg and spotted 25 sx class C @ 2235-1988. WOC. Tagged @ 1972'. Spotted 45 sx class C @ 412-surface. 05/31/16 Verified cement @ surface. Rigged Down moved off. 106/14/16 MI welder and backhoe. Dug out cellar, /cut off wellhead. Welded on "Below Ground Dry Hole Marker". Backfill cellar. Remove deadmen. Clean loc. and moved off. Installed Closed-Loop System with steel tanks. Hauled contents from Closed-Loop System to approved NMOCD disposal location according to Rule 19.15.17. 1 hereby certify that he information above is true and complete to the best of my knowledge and belief. 2	05/24/16 MIRII plugging equipm	ient Dug out celler	
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Circulate 65 bbls of MLF. Spot 25 sx class H cement @ 8107-7817. Pulled coiled tubing to 5440. Spotted 25 sx class C cement @ 5440-5187. POH w/ coiled tbg. WOC. Tagged plug @ 5158. Perf'd 2 7/8 & 5 1/2 csg @ 4290. Pressured up on perf. RIH w/ coiled tbg to 4340. Spotted 10 sx class C cement @ 4340-3934. POH w/ coiled tbg. WOC. 05/27/16 Tagged plug @ 3600. Cut 2 7/8 tbg. @ 2235' & pulled 2 7/8 out of hole. RIH w/ tbg and spotted 25 sx class C @ 2235-1988. WOC. Tagged @ 1972'. Spotted 45 sx class C @ 412-surface. 05/31/16 Verified cement @ surface. Rigged Down moved off. 06/14/16 MI welder and backhoe. Dug out cellar, /cut off wellhead. Welded on "Below Ground Dry Hole Marker". Backfill cellar. Remove deadmen. Clean loc. and moved off. Installed Closed-Loop System with steel tanks. Hauled contents from Closed-Loop System to approved NMOCD disposal location according to Rule 19.15.17. I hereby certify that the information above is true and complete to the best of my knowledge and belief. TITLE COMPLIANCE COORDINATOR DATE 06/16/2016 TITLE COMPLIANCE COORDINATOR PHONE: 432-689-5200 PHONE: 432-689-5200 PHONE: 432-689-5200 DATE 6/21/2016			
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Type or print name LAURA PINA E-mail address:		TITLE COMPLIANCE COOR	<u>DINATOR</u> DATE <u>06/16/2016</u>
APPROVED BY: Neal Whitele Hitle P.E.S. DATE 6/21/2016		F-mail address: Inina@lossevim	COM PHONE 422 500 5200
APPROVED BY Neal Whitelest HILE P.E.S. DATE 6/21/2016		L-man addressipina@iegacyip	.com
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WELLBORE SCHEMATIC

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Final P+A

Well Name & No.: S. V. Suurise State #1 Field: Echols, NE (Devonian) Field Location: 913' FSL; 382' FEL; Sec. 15; T-10-S, R-37-E County: State: NM API#: 30-025-33724 Spud Date: 01/20/97
Original Operator: Manzano Oil Corp. GR Elev: 3941.0 KB: 16.0 GR Elev: 3957.0 Original Lease Name: Same As Above



6/2/17

The because it they me transcore many on at the grander

McMillan, Michael, EMNRD

From:

Brown, Maxey G, EMNRD

Sent:

Thursday, June 8, 2017 8:00 AM

To:

Jones, William V, EMNRD

Cc:

McMillan, Michael, EMNRD

Subject:

RE: Permian TDS, LLC SV Sundown SWD Well No. 1

I agree with you procedure less the final log.

MGB.

From: Jones, William V, EMNRD Sent: Thursday, June 8, 2017 7:58 AM

To: Brown, Maxey G, EMNRD < Maxey G. Brown@state.nm.us> Cc: McMillan, Michael, EMNRD < Michael. McMillan@state.nm.us>

Subject: RE: Permian TDS, LLC SV Sundown SWD Well No. 1

Maxev.

Sounds logical!

Would you go with my "procedure" less the final log – or just a writeup?

Would you wordsmith this to make this work for you?

Will

From: Brown, Maxey G, EMNRD

Sent: Thursday, June 8, 2017 6:03 AM

To: Jones, William V, EMNRD < William V. Jones@state.nm.us > Subject: RE: Permian TDS, LLC SV Sundown SWD Well No. 1

I was just confused on why the CBL is ran twice from 12040 to surface. I see the first time to determine TOC. And if a second time is required why from 12040 again. When the well was plugged the 8 5/8" shoe was perforated @ 4310' and squeezed. So any cement squeezed through the perfs @ 4998'-5012' will not come up or probably not down. So the second CBL will only show the small section of the new squeeze. Or that's my theory.

MGB.

From: Jones, William V, EMNRD

Sent: Wednesday, June 7, 2017 6:28 PM

To: Brown, Maxey G, EMNRD <MaxeyG.Brown@state.nm.us>; McMillan, Michael, EMNRD

<Michael.McMillan@state.nm.us>

Cc: Whitaker, Mark A, EMNRD < MarkA. Whitaker@state.nm.us> Subject: RE: Permian TDS, LLC SV Sundown SWD Well No. 1

Oops,

We were probably working on this at the same time...

I am going home for the night.

From: Brown, Maxey G, EMNRD

Sent: Wednesday, June 7, 2017 4:57 PM

To: McMillan, Michael, EMNRD < Michael. McMillan@state.nm.us >; Jones, William V, EMNRD

McMillan, Michael, EMNRD

From:

McMillan, Michael, EMNRD

Sent:

Monday, June 12, 2017 9:15 AM

To:

'Rena Seav'

Cc:

Jones, William V, EMNRD; Lowe, Leonard, EMNRD; Goetze, Phillip, EMNRD; Brown,

Maxey G, EMNRD; Whitaker, Mark A, EMNRD

Subject:

RE: Permian TDS SV Sundown State SWD Well No. 1 API 30-025-32750

Eddy:

Based on examination of the well file, discussions with the Engineering Bureau, and Hobbs District Office, here are the requirements I am recommending to the Director for the Permian TDS SV Sundown State SWD Well No. 1 API 30-025-32750.

IT IS FURTHER ORDERED THAT:

The operator shall file (Notice of Intention) Form C-103 and under guidance of the Hobbs district office of the Division perform the following:

- a. Drill out shallower plugs down to the CIBP at approximately 12040 feet.
- b. Run a cement bond log (or equivalent) from PBTD to surface.
- c. Pressure test and isolate (locate) any casing leaks.
- d. Squeeze cement as needed to repair leaks and to cover the San Andres formation from 5350 feet to 4000 feet.

These requirements shall be completed successfully prior to running injection tubing inside the 5-1/2-inch casing.

Thank You

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

From: McMillan, Michael, EMNRD Sent: Monday, June 5, 2017 4:30 PM To: Rena Seay <seay04@leaco.net>

Cc: Jones, William V, EMNRD < William V. Jones@state.nm.us>; Lowe, Leonard, EMNRD < Leonard.Lowe@state.nm.us>;

Goetze, Phillip, EMNRD < Phillip.Goetze@state.nm.us>

Subject: RE: Permian TDS SV Sundown State SWD Well No. 1 API 30-025-32750

		ŧ	1 1/2 127	C lan	1017 C/	25/247	
SATE OF NEW MENTS	C-108 Revie	w Checklist: R	eceived Add. Req	Ç/VI uest:	Reply Date:	9 57 24) Suspended: [Ver 15]
						mits/Orders:	
Well No	1 Well Name	e(s): 5 V	Syndeun	541			
					: (UIC Class	s II Primacy 03/07/1982)	
Footages	+STESL 161FW		or Unit M Sec.	14 Ø Ten	105 Roe 3-	75 County 1.65	
General Location	n. 215m	iles Hul	The Pool:	Sur) n. 45- New	SII Primacy 03/07/1982) 75 County L C G Pool No.: G 78 65 Intact: SC Y C C C C C C C C C C C C C C C C C	_
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WELL DIAGRA	MS: NEW: Propose	d O or RE-ENTER:	Before Conv. After	Conv. 🕒	Logs in Imaging:		
Planned Rehab	Work to Well:					<u>/</u> _	
Well Cons	truction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)		Cement Sx or Cf	Cement Top and Determination	n M ethod
	_or Existing _Surface	H	2350	Stage Tool	350	SGFFW-/Vis	421
	xisting Interm/Proc	1-71.110.4	4260	 	1440	Sugger Vis	42/
	Existing _Interm/Proc		- 12174	<u> </u>	575	1800-	31 Jean
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	ed_or Existing _ Line			Inj Length			
Planned_or	Existing OH PERF	פסר ב לעיובן		5601	<u>Com</u>	pletion/Operation Details:	
Injection Litho	stratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops		-174 BTD	
Adjacent Unit	Litho. Struc. Por.	MUSEUMAT	wd	1172		NEW PBTD MA	نزرار حبير
	: Litho. Struc. Por.	<u> </u>	DV			or NEW Perfs	6/1/2
1	ed Inj Interval TOP					in. Inter Coated?	-
	i Interval BOTTOM: Litho. Struc. Por.			 -		Depth 12/40 ft / n 12074 (100-ft limit)	242600
	Litho. Struc. Por.					urface Press. 280 psi	-40-19
		and Geologic Inf	ormation	!		242 (0.2 psi per ft)	
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Disposal Flui	d: Formation Source	(s) S.A. De	Analys	is?	On Lease O One	erator Only \bigcirc or \bigcirc	
						_ System Closed or Open	<u> </u>
		. ,				2-Mile Radius Pool Map @	_]
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		11	s?on which well(s)?				
ļ		<u>,'</u>	on which well(s)? _			Diagrams?	
NOTICE: Ne	wspaper Date	Mineral	Owner Nm SW	Surface	Owner_/V m	520 N. Date	
ł			sons:			N. Date	}
Order Condi	tions: Issues:_						<u></u>
Add Order Cor	ıd:			· _			
43 - 43 - 49	*ne	huine a	13-LAF	1202	C/U Prus	5 Xmi	4KC
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