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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



		ADMINISTRATIVE APPLICAT	TION CHECKLIST	
	THIS CHECKLIST	IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR WHICH REQUIRE PROCESSING AT THE DIVISIO		ULATIONS
Applic	[DHC-Do	yms: tandard Location] [NSP-Non-Standard Proration twnhole Commingling] [CTB-Lease Commingli Pool Commingling] [OLS - Off-Lease Storage] [WFX-Waterflood Expansion] [PMX-Pressur [SWD-Salt Water Disposal] [IPI-Injection	Unit] [SD-Simultaneous Dedicationg] [PLC-Pool/Lease Commingli	ng]
[1]	TYPE OF A	APPLICATION - Check Those Which Apply for Location - Spacing Unit - Simultaneous Dedica NSL NSP SD		engy, L.P
	Che [B]	cck One Only for [B] or [C] Commingling - Storage - Measurement DHC CTB PLC PC	OLS OLM	230-a
	[C]	Injection - Disposal - Pressure Increase - Enhan WFX PMX SWD IP		03/2
	[D]	Other: Specify		
[2]	NOTIFICA [A]	TION REQUIRED TO: - Check Those Which A Working, Royalty or Overriding Royalty I	apply, or □ Does Not Apply	OCD
	[B]	Offset Operators, Leaseholders or Surface		
	[C]	Application is One Which Requires Publis	shed Legal Notice – 2 e e	vesjone
	[D]	Notification and/or Concurrent Approval U.S. Bureau of Land Management - Commissioner of Public La	by BLM or SLO 5 3 Inds, State Land Office	vesjone 2070
	[E]	For all of the above, Proof of Notification	or Publication is Attached, and/or,	
	[F]	☐ Waivers are Attached		
[3]		CCURATE AND COMPLETE INFORMATION INDICATED ABOVE.	ON REQUIRED TO PROCESS T	HE TYPE OF
	al is accurate	ATION: I hereby certify that the information submand complete to the best of my knowledge. I also required information and notifications are submitted	understand that no action will be tak	istrative en on this
	N	lote: Statement must be completed by an individual with ma	nagerial and/or supervisory capacity.	
	Stone	Se X	Agent for Sundown Energy, LP	8/31/17
Print o	r Type Name	Signature	Title ben@sosconsulting.us e-mail Address	Date



August 31, 2017

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

Attn: Mr. David Catanach, Director

Re: Application of Sundown Energy, LP to convert to injection its Reeves Queen Waterflood Unit Well No.3, API No.30-025-03127 located in Section 22, Township 18 South, Range 35 East, NMPM, Lea County, New Mexico.

Dear Mr. Catanach,

Please find enclosed the form C-108; Application for Authority to Inject, supporting the above-referenced request to authorize injection authority for this well. The Reeves Queen Waterflood Unit authorization of two original injection wells was permitted by R-13785 on January 21, 2014.

Sundown Energy, LP seeks to optimize efficiency, both economically and operationally, of its assets. Approval of this application is consistent with that goal as well as the NMOCD's mission of preventing waste and protection of correlative rights. Sundown anticipates that the conversion of the No.3 well will enhance production and improve efficiency of the unit.

Of particular note, the applicant is requesting a maximum surface injection pressure of 1200 psi based on steprate tests conducted on the existing 2 injection wells. Those wells were approved for 1350 psi and 1200 psi by IPI-492 on August 15, 2015. (The 0.2 psi/ft standard gradient would have allowed 886 psi.) Details are included in this application.

Published legal notice will run in the September 1, 2017 edition of the Hobbs News-Sun. Sundown is the operator of record for the unit and 3 offset operators were noticed. Some updated maps and diagrams are included in this application for clarity, and this well's AOR brought in 4 additional wells in the area of review; those well construction details are tabulated.

The well is located on state land and minerals and a copy of this application has been submitted to the State Land Office, Oil & Gas Division.

I respectfully request that approval for this injection authority 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 Sundown Energy, LP

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

l.	PURPOSE:	Waterflood Expansion and the application qualifies for administrative approval.

II. OPERATOR:

Sundown Energy, LP (Ogrid - 232611)

ADDRESS:

16400 Dallas Parkway, St 100, Dallas, TX 75248

CONTACT PARTY: Ralph Butler (214) 368-6100

Agent: SOS Consulting, LLC - Ben Stone (903) 488-9850

- III. WELL DATA: All well data and applicable wellbore diagrams are ATTACHED hereto.
- IV. This is an expansion of an existing project. (Previously permitted by R-13785.)
- 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. PREVIOUSLY SUBMITTED A tabulation of of data on all wells of public record within the area of review which penetrate the proposed injection zone. The data includes a description of each well's type, construction, date drilled, location, depth, and a schematic of any plugged well illustrating all plugging detail. 4 Additional Wells; 1 active, 3 P&A Data ATTACHED.
- VII. Attach data on the proposed operation, including: Included on following C-103 Narrative.
 - 1. Proposed average and maximum daily rate and volume of fluids to be injected;
 - 2. Whether the system is open or closed;
 - 3. Proposed average and maximum injection pressure;
 - 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. Attach appropriate geologic data on the injection zone 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. **PREVIOUSLY SUBMITTED**
- IX. Describe the proposed stimulation program, if any. The well may be acidized when converted to injection.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted). **PREVIOUSLY SUBMITTED**
- *XI. State Engineer's records indicate there are 3 water wells within one mile the proposed injection well. All data PREVIOUSLY SUBMITTED.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence 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.

 Affected parties have not changed. Legal Notice was published 9/01/17 in the Hobbs News-Sun.
- 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 age	nt / consultant for Sundo	wn Energy, LP.
SIGNATURE:	DATE:	8/30/2017
E-MAIL ADDRESS: ben@sosconsulting.us		

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

Page 2

- III. WELL DATA The following information for the Bobbi State WF Unit No.6 are ATTACHED and includes:
- 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 Note: The APPLICANT is the operator of record for subject unit. Offset operators were noticed and Published Legal Notice was made. No other offset affected parties are due notice for application.

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.

C-108 - APPLICATION FOR AUTHORIZATION TO INJECT

Sundown Energy, LP Reeves Queen Waterflood Unit Well No.3 30-025-03127

I. This application is being submitted to expand the previously authorized waterflood unit and improve the efficiency of the waterflood project.

The Reeves Queen Waterflood Unit and the original two injection wells were authorized on January 21, 2014 by R-13785 (unitization R-13786), Case File No.15048 (waterflood) and No.15055 (unitization). The RQWFU Nos.1 and 2 are currently active injection wells and so designated. Injection authorization for the No.3 well is anticipated to enhance production and increase efficiency.

This application qualifies for administrative approval.

- II. ALL operater data is shown previously and throughout.
- III. ALL well data has been submitted no interval changes to the well are proposed. The 'Current' and 'Proposed' wellbore diagrams are included.
- IV. This request is an expansion of the <u>original project as authorized by R-13785</u>.
- V. An updated One-Half Mile Area of Review Map is attached. The current AOR includes 4 additional wells; 1 active and 4 plugged and abandoned.
- VI. A tabulation of well construction data for the 4 additional wells is included herein.
- VII. Data on the proposed operation has been previously submitted, but is shown here for clarity including:
 - 1. The well is expected to inject between 100 and 200 bwpd;
 - 2. The system is closed;
 - 3. The default injection pressure of 0.2 psi/ft would allow for a surface injection pressure of 866 psi however; RQWFU well nos.1 and 2 had step-rate tests performed in June, 2015.

 The results allowed for pressures of 1200 psi on well no.1 and 1350 psi on well no.2.

 Sundown therefore requests an allowable maximum injection pressure of 1200 psi;
 - 4. Produced water from the lease and some make up water (also from on-lease water well) as required; all applicable water data was previously submitted and approved; and,
 - 5. Injection will be into the Reeves; Queen Pool (52070) as authorized for secondary recovery.
- VIII. All Geologic Data has been previously submitted and approved.
- IX. A routine small acid job may be performed to clean the perforations and formation wall.

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

Sundown Energy, LP Reeves Queen Waterflood Unit Well No.3 30-025-03127

- X. Logs are on file with the Division and were presented for project initialization.
- XI. Water analysis for 1 water well was submitted previously.
- XII. Applicant stated during hearing testimony that seismic data indicated no evidence of open faults or any other hydrologic connection between the injection zone and any underground sources of drinking water.
- XIII. Legal notice was published for this application in the Hobbs News-Sun on September 1, 2017. No offset notification was required for the unitized tracts operated by Sundown Energy, LP. A copy of this application was submitted to the NM State Land Office, Oil & Gas Division via Fed Ex. The original lease plat is included with this application. 3 current offset operators were noticed via U.S. Certified Mail.
- XIV. The application has been signed and dated.



CURRENT WELL CONFIGURATION



Reeves Queen WF Unit Well No.3

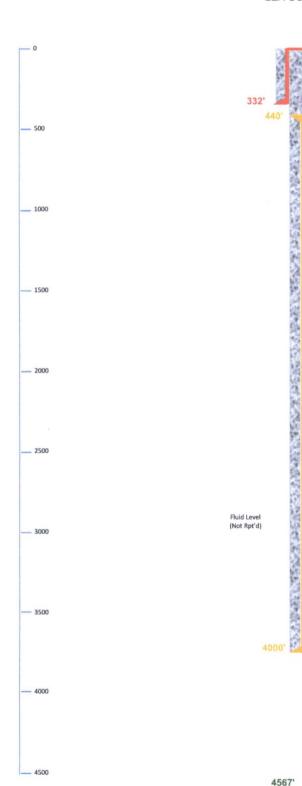
API 30-025-03127

660' FSL & 660' FWL, SEC. 22-T18S-R35E LEA COUNTY, NEW MEXICO

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福加井斯拉斯特巴斯特拉拉的福加州斯拉斯特巴斯特克拉拉

Spud Dt: 5/02/1958 P&A Date: 8/07/1958 ReEntry Date: 1/17/1990





Surface Casing

13.375" Csg. (17.0" Hole) @ 332' 400 sx Class 'C' - Circulated

Intermediate Casing

9.625" Csg. (12.25" Hole) @ 440' - 4000' 1650 sx Class 'C' - Circulated.

2.375" Tubing & Rods Tubing @ 4406'

Production Liner 4.5" 10.5# Lnr. (7.875" Hole) @ 4567' 1280 sx 'C' - Circulated 150 sx

Queen Perfs: 4432'-4450'

PBTD 4556'

ReEntry TD @ 4600'

Drawn by. Ben Stone, 8/30/2017



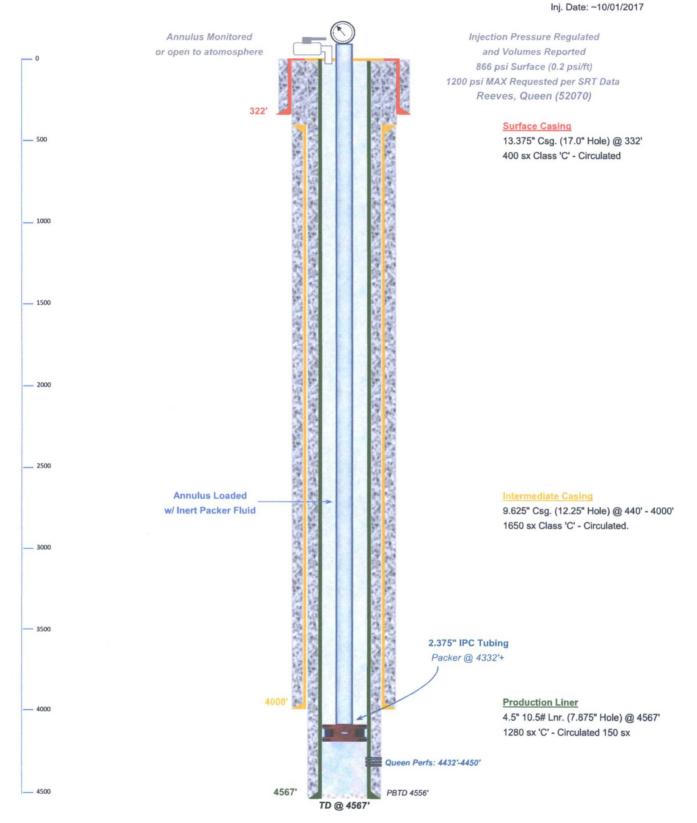
C-108 - Item III - Well Data CURRENT WELL CONFIGURATION



Reeves Queen WF Unit Well No.3

API 30-025-03127

660' FSL & 660' FWL, SEC. 22-T18S-R35E LEA COUNTY, NEW MEXICO Spud Dt: 5/02/1958 P&A Date: 8/07/1958 ReEntry Date: 1/17/1990





State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez Governor

David Martin Cabinet Secretary

Brett F. Woods, Ph.D. Deputy Cabinet Secretary David R. Catanach, Division Director
Oil Conservation Division



Administrative Order IPI-492 August 10, 2015

Mr. Daniel Hunter Sundown Energy, LP 16400 Dallas Parkway, Suite 100 Dallas, TX 75248

RE: Injection Pressure Increase

Injection Permit: Order No. R-13785 Reeves Queen Waterflood Project Reeves; Queen Pool (Code 52070) 30-025-29340 and 30-025-29526

Dear Mr. Hunter:

Reference is made to your request on behalf of Sundown Energy, LP (OGRID 232611) received by the Division on June 24, 2015, to increase the maximum allowed surface tubing pressure on the referenced wells.

These wells were permitted by the Division for injection into the Queen formation within the Reeves Queen Waterflood Project by Division Order No. R-13785 approved January 21, 2014.

Based on step-rate tests for these wells through 2½-inch tubing, you are hereby authorized to inject at the following maximum surface tubing pressure:

API No.	. Well No.	ULSTR	SRT Test Date	Maximum Injection Pressure	Pressure Gradient (in psi/ft)
30-025-29340	Reeves Queen Waterflood Unit Well No. 1	A-28-18S-35E	6/17/2015	1200 psi	0.27
30-025-29526	Reeves Queen Waterflood Unit Well No. 2	B-28-18S-35E	6/18/2015	1350 psi	0.30

This approval is based on the provision that the tubing size, packer setting depth and completion interval for these wells does not change. Any future requested pressure increase will require resubmission of additional data and a new step-rate test. The Division Director retains the right to require at any time wireline verification of completion and packer setting depths in these wells. This

Administrative Order IPI-492 Sundown Energy, LP August 10, 2015 Page 2 of 2

approval is subject to your being in compliance with all other Division rules, including but not limited to Division Rule 19.15.5.9 NMAC.

The Division Director may rescind this permitted injection pressure increase if it becomes apparent that the injected fluid is not being confined to the permitted interval or is endangering any fresh water aquifer.

Sincerely,

DAVID R. CATANACH

DIRECTOR

DRC/wvjj

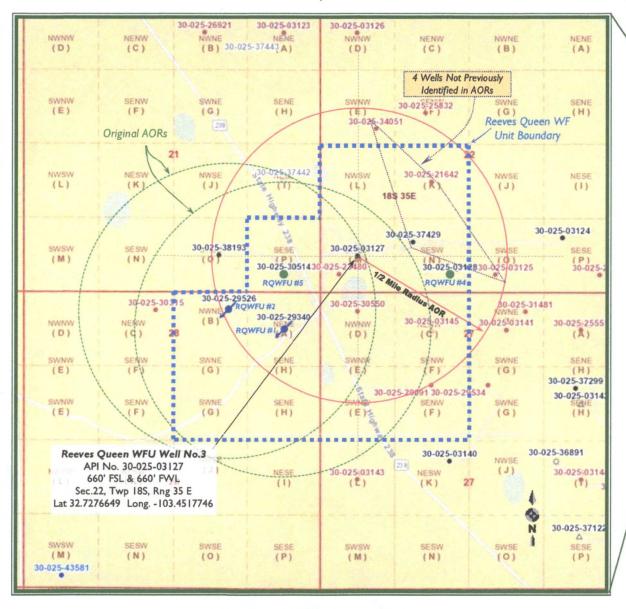
cc: Oil Conservation Division - Hobbs District Office

Case No. 15048

Administrative Application Reference No. pMAM1518154470

Reeves Queen WFU Well No.3 WFX - Area of Review / Overview Map =

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



18.4 miles West of Hobbs, NM





Lea County, New Mexico



Form C-108 Item VI - Tabulation of AOR Wells

	Top of Proposed QUEEN Interval 4412'				4 AD	DITIONAL	Wells Penetrate F	Proposed Interval.	
API	Current Operator	Well Name	Well Number	Туре	Lease	Status	ULSTR	Depth	Plugged On
Subject Well 30-025-03127	[232611] SUNDOWN ENERGY LP	REEVES QUEEN WF UNIT	#003	Oil	State	Active	22-18S-35E		
Section 22 Well:	S								
30-025-37429	[372000] POGO OIL & GAS OPERATING, INC	SOUTH VACUUM	#221	Oil	State	Active	22-18S-35E	14572'	
MISS I	Perfs: 10794'-872'; 13.3755" (17.5" hole) @ 416' w 6	530 sx - Circ.; 9.625" (12.25" hole) @ 3943	' w/ 1370 sx - Circ.; 7.0	0" (8.75"	nole) @ 12	745' w 1220	sx -TOC @ 9080';	5.0" LNR 11955'-1459	2' w/ 250 sx - TOL.
30-025-34051	[13954] MANZANO OIL CORP	SV HONEY BEE STATE	#001	Oil	State	P&A-R	22-18S-35E	12000'	7/9/2002
								See attach	ed P&A diagram.
30-025-21642	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#008	Oil	State	P&A-R	22-18S-35E	11780'	1/1/1900
								See attach	ed P&A diagram.
30-025-03125	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#002	Oil	State	P&A-R	22-18S-35E	11750'	1/1/1900
								See attach	ed P&A diggram.

SUMMARY: 4 ADDITIONAL wells penetrate proposed injection interval. 3 P&A.



C-108 - Item VI

Area of Review Well Data

PLUGGED WELL SCHEMATICS

There Are 3 P&A'd Wells Within the AOR
Which Penetrate the Proposed Injection Zone.

Schematics follow this page...

PLUGGED WELL SCHEMATIC

SV Honey Bee State No.1

API 30-025-34051

2372' FNL & 994' FWL, SEC. 22-T18S-R35E LEA COUNTY, NEW MEXICO Spud Date: 7/15/1997 P&A Date: 7/09/2002

	well Flugged by						
	Mananzo Oil Corp.						
0	<plugging items="" left="" listed=""></plugging>	P&A Marker G	G.L. 3909'	<pre-p&a existing="" it<="" th=""><th>EMS LISTED</th><th>RIGHT></th><th></th></pre-p&a>	EMS LISTED	RIGHT>	
	Spot 15 sx	THE REPORT OF THE PARTY OF THE	0.03				
	PLUGS: at Surface	400'	G 40				
	Shoot SQZ holes@	0.450′ → (No.	Surface Casing			
		123			/43 EU 1		
1000	SQZ w/ 100 sx	20	2	13.375" 54.5# Csg			
1000	Spot 35 SX		B	350 sx - Circulated	to Surface	J	
	1406'-1271'	A STREET BALDING	8				
		THE PERSON NAMED IN					
2000		3	2				
			- ·				
		授	S	Intermediate Coni	10.61		
		祝		Intermediate Casi			
		21	<u>K</u>	8.625", 32.0# Csg.	,	3850	
3000			Hit Control of the Co	1000 sx - TOC 800	' Calc.		
		2	Ži.				
	Spot 45 sx		80				
	3901'-3732'		3	<p&a subsequ<="" th=""><th>ENT SUNDRY</th><th>></th><th></th></p&a>	ENT SUNDRY	>	
	(Tagged)	3850'	Submit A Copies To Appropriate Dutrict	State of New Me	xico		Form C-103
4000		(5)	Office District I 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals and Natur	ral Resources	WELL API NO.	Revised March 25, 1999
		(-)	District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION		5. Indicate Type of	30-025-34051
		\	District III 1000 Rio Brazos Rd., Astec, NM 87410 District IV	1220 South St. Fran Santa Fe, NM 87		STATE 6	
			District IV 1220 S. St. Francis Dr., Santa Fe. NM 87505			E	E-1582
		\	SUNDRY NOTION (DO NOT USE THIS FORM FOR PROPOSE DEFFERENT RESERVOIR. USE "APPLIC	CES AND REPORTS ON WELLS IALS TO DRILL OR TO DEEPEN OR PLU	O BACK TO A	7. Lease Name or	r Agroement Name:
5000			PROPOSALS.) 1. Type of Well:	ATION FOR PERMIT* (PORM C-101) PO	RSUCH	"SV" Honey	Bee State
		(Oil Well Gas Well C	Other		8. Well No. #1	
	Spot 30 sx	\ \(\)	Address of Operator	o Oil Corporations		9. Pool name or V	Wildow
	6007'-5891'		P.O. Bo 4. Well Location	x 2107, Roswell, NM 88202-	2107	7. FOOI Harrie Of V	Tilgen
		AND SHITTER SECT		0.070 c . c . h	dh V	004	
6000			Unit Letter E		Range 35-E		county Lea
		}	Section 22	Township 18-S 10. Elevation (Show whether DR 3,923' KB			County Lea
	Spot 35 sx	_	11. Check A	ppropriate Box to Indicate Na	ature of Notice,	Report or Other	Data
	7005'-6812'		NOTICE OF IN	PLUG AND ABANDON	REMEDIAL WOR	SEQUENT REF	PORT OF: ALTERING CASING
	(Tagged)	A CHICAGO MAN AND COLOR	TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRI	LLING OPNS.	PLUG AND
7000	(,aggaa)		PULL OR ALTER CASING	MULTIPLE COMPLETION	CASING TEST AV	ND 🗆	ABANDONMENT
	FOOR! And TOO in Hall	STATE OF THE PROPERTY OF THE P	OTHER:		OTHER:		0
	5098' Junk TBG in Hole	[Describe proposed or completed starting any proposed work). SE 	operations. (Clearly state all pertine R1/1 F 1103. For Multiple Comm	nent details, and gi	re pertinent dates, in	scluding estimated date of
	(Appro'd by OCL	"	recompilation. 06/20/02 MIRU Triple N rig #25	ND wellhead and NU BOP, start	in hole w/ 2-3/8*	workstring that Si	DEN
8000		 	06/21/02 Notified OCD, Gary Wir to 6.800' and SD for weekend.	nk. Continued in hole w/ 2-3/8" 8	2-7/8" workstring	g tbg, tagged PBTI	D @ +/- 10,633° PUH
		\ ## \	06/24/02 Notified OCD, Billy Prito 06/25/02 RU swivel and dniled/w	chard. POOH w/ tubing, RIH w/ ashed to 10,677 - 10,988°. RIH	bit to 6,800'. Will to 11,269', drilled	drill/wash to 12,00 I/washed 11,269 -	10'. - 11,473'. Twisted off
		}	tubing, loosing 20 pts. POOH w/ fish but kept loosing bite. POOH	w/ overshot and SDFN.			
	D/O - Washout F	fluid	06/26/02 Notified OCD, Billy Prito times, unable to move. POOH w/	chard. RIH w/ Kutrite shoe and 3 overshot. RIH w/ tbg to 7,005'.	RU cementer an	ø/ bumper sub. La id pumped 35 s k C C C C C C C C C C C C	itched onto fish several cmt 7,005 – 6,868'.
		}	POOH w/ tbg and SDFN. 06/27/02 Notified OCD, Billy Prito	chard. Tagged cmt @ 6,812'. P	umped 30 sx C o	mt 6,008 - 5,891'.	Pumped 50 sx C cmt
9000)	}	w/ 2% CaCl ₂ @ 3,901'. WOC and squeezed 100 sx C cmt 450 -325	 WOC 2 hrs and tagged cmt @ 	330'. Pumped	15 sx C cmt 60' ftr	surface. RDMO.
			67/09/02 Cut off wellhead and in		110		
		3	I hereby certify that the information :				12.50
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	SIGNATURE	4	Engineer		DATE 07/09/02
		()	Type or print name James F (This space for State use)	Newman, P.E.			one No. 915-687-1994
1000	00	}	APPROVED EN LUIS	1 Websity.	tinder tond is re	of the Well Bore.	JAN 2 4 2003
			Complicity of appropriate if any		estoration is com	pleted.	
			71 25 THE DREFT HARTE				\$
) [11]					
) //		Production Casing	1		
1100	N.	2 1 3 5		NONE SET			
		()					
	Formation Flui	ids					

DTD @ 12000'

12000

Drawn by: Ben Stone, 9/05/2014



PLUGGED WELL SCHEMATIC

Lea 403 State Well No.8 API 30-025-21642

1980' FSL & 1980' FWL, SEC. 22-T18S-R35E LEA COUNTY, NEW MEXICO

Spud Date: 11/13/1965

P&A Date: 8/01/1974

<PRE-P&A EXISTING ITEMS LISTED RIGHT> <PLUGGING ITEMS LISTED LEFT> P&A Marker G.R. 3901' Spot 10 sx Surface Casing PLUGS: 30'-0' 13.375", 48.0# Csg. (17.5" Hole) @ 375' 475 sxs - Circulated to Surface -1000 Spot 30 sxs Intermediate Casing 8.625", 24.0/32.0# Csg. (11.0" Hole) @ 4000' 1853'-1735' 1075 sxs - Circulated to Surface _ 2000 3000 <P&A SUBSEQUENT SUNDRY> Spot 50 sxs DISTRIB NEW MEXICO OIL CONSERVATION COMMISSION 4060'-3900' 4000 SUNDRY NOTICES AND REPORTS ON WELLS ** E ***. Form or Leone Non Atlantic Richfield Company Lea 403 State P. O. Box 1710, Hobbs. New Mexico 88240 8 D. Field and Pool, or Wildon - 5000 South Line and 1980 Lea 3901' GR Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO:
SUBSEQUENT REPORT OF: 6000 Hole Loaded w/ **Plugging Mud** -17. Describe Proposed or Completed Operations (Clearly state all persianal de work) SEE RULE 1103. Spot 50 sxs Plugged & Abandoned well in the following manner: Ran & set 54" CIBP @ 11,650' & capped w/35 cet 11,650-11,615'. Filled hole w/beavy mud. Shot 51' ceg off @ 8400' & recovered 230 its 8400' of 54' 170 x-80 X-11ne & 8rd ceg. Spotted 50 sk cat plug across 51' ceg stub 8450-8280'. Set 50 sk cat plug @ top of Bone Springs 7006-8846'. Set 50 sk cat plug across 8-5's ceg shoe 4060-3900'. Set 35 sk cat plug @ top of salt 1853-1735'. Set 10 sk cat plug in top of 8-5/8' ceg. %elded on plate & installed regulation dry hole marker. Levelled & clevel location . P&A 8/1/74. Your office to be notified when location is ready for inspection. 7006'-6846' 7000 Spot 50 sxs 8000 8450'-8280' Cut and pull 5.5" @ 84001 9000 _ 10000 11000 Production (Int.) Casing 5.5", 15.0# csg. (7.875" Hole) @ 11780' w/ 400 sx CIBP @ 9990' w/ 35' Cmt_ Perfs: 11679'-770' TOC 7500' Calculated 11780 Drawn by: Ben Stone, 8/31/2017 TD @ 11780' __ 12000

PLUGGED WELL SCHEMATIC

Reeves State No.1 API 30-025-03125

330' FSL & 2180.5' FEL, SEC. 22-T18S-R35E LEA COUNTY, NEW MEXICO Spud Date: 11/02/1959 P&A Date: 8/28/1969 Re-Entry Date: 12/30/1992 P&A Date: 4/08/1993

<PRE-P&A EXISTING ITEMS LISTED RIGHT>

Surface Casing

11.75" Csg. (17.5" Hole) @ 457' 475 sxs - Circulated to Surface

Intermediate Casing

8.625", 32.0# Csg. (11.0" Hole) @ 3805' 2088 sxs - Circulated to Surface

NEW Production Liner

5.5", 15.0# csg. (7.5" Hole) 3586'-4500' w/ 165 sx TOC @ TOL

<P&A SUBSEQUENT SUNDRY>

State of New Mexico Energy, .nerals and Natural Resources De OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088
Substitute Two of Leave DISTRICT J P.O. Box 1980, Hobbs, NM 88240 5. Indicate Type of Lease

STATE

FEE

6. State Oil & Gas Lease No.

L-4253-3 DISTRICT II P.O. Drawer DD, Artesia, NM 88210 DISTRICT III 1000 Rio Brazos Rd., Astec, NM 87410 SUNDRY NOTICES AND REPORTS ON WELLS IS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR I DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT FROM C-1011 FOR SUCH PROPOSALS." PLUG BACK TO A Reeves-States Sizes of Operator
Capataz Operating, Inc.
Address of Operator
P. O. Box 2083, Midland, TX 79702
WellLosston Reeves-Dueen Unit Letter 0 330 Feet From The South Line and 2180.5 Feet From The East Township 18S Range 35E NMPM Lea

10. Elevation (Show whether DF, RKB, RT, CR, etc.) Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT

SUBSEQUENT REPORT SUBSEQUENT REPORT OF PERFORM REMEDIAL WORK PLUG AND ABANDON CHANGE PLANS COMMENCE DRILLING OPNS PULL OR ALTER CASING CASING TEST AND CEMENT JOB OTHER: 12. Deacribe Proposed or Complete North SEE RULE 1103. Set CIBP 0 4023'. Displaced hole w/ mud.
Set Cement Plugs as follows:
25 SX on CIBP
30 SX on 3496-3642'
35 SX 0 1650-1750'
10 SX 0 Surf.
Cut off wellhead. Installed dryhole marker. RDMO. H. Scott Davis - ma Agent H. Scott Davis **тиличе № 915-682-7664** MAY 1 2 1993 MAOIL & GAS INSPECTOR

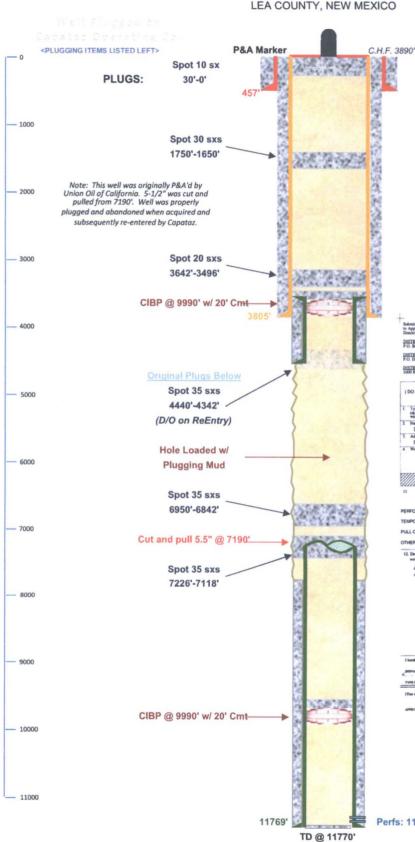
Production (Int.) Casing

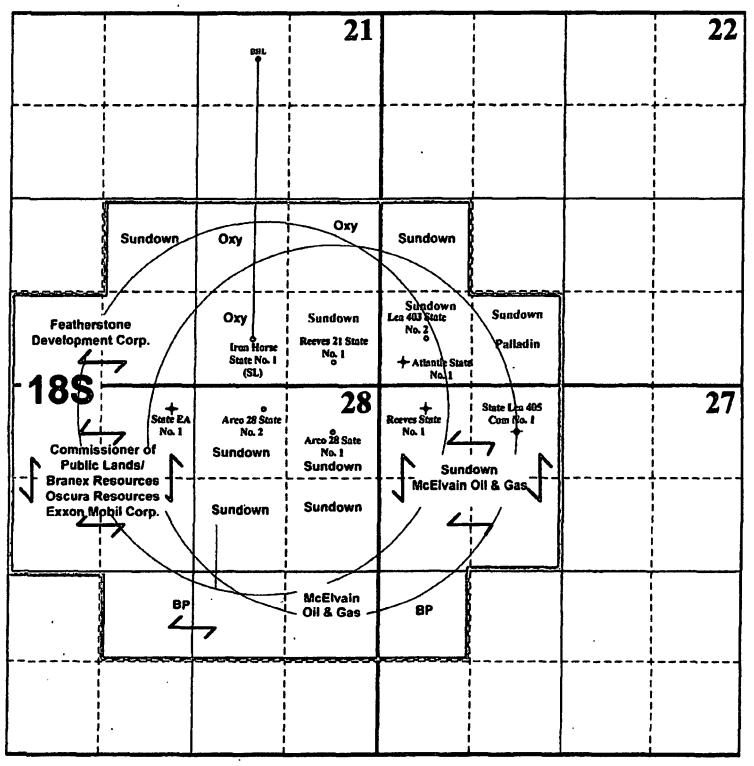
5.5", 11.6# csg. (15.5" Hole) @ 11769' w/ 230 sx TOC 8000' Calculated

Perfs: 11532'-90'

Drawn by: Ben Stone. 8/31/2017







- O Proposed Injection Well
- O Producing Well
- 💠 PA'd Well

C-108 Notice Area

Text Text Leasehold or Mineral Interest Owner Operator Sundown Energy, LP
Reeves Queen Unit Waterflood
Offset Operator/Leashold Owner
Identification

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

SURFACE OWNER

STATE OF NEW MEXICO (FedEx'ed copy)
Oil, Gas and Minerals Division
310 Old Santa Fe Trail
Santa Fe, NM 87504

OFFSET OPERATORS (All Notified via USPS Certified Mail)

Operator

1 OXY USA WTP LIMITED PARTNERSHIP 6001 Deauville Blvd. Midland, TX 79706 Cert. Rcpt: 7015 3010 0001 3789 9538

Operator

2 T.H. McELVAIN OIL & GAS LLP 1050 17th Street, Suite 2500 Denver, CO 80265 Cert. Rcpt: 7015 3010 0001 3789 9545

Operator

POGO OIL & GAS OPERATING, INC
 1515 Calle Sur, Ste.174
 Hobbs, NM 88240
 Cert. Rcpt: 7015 3010 0001 3789 9552

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

NEW MEXICO STATE LAND OFFICE (FedEx'ed copy)
Commissioner of Public Lands
310 Old Santa Fe Trail
Santa Fe, NM

C-108 ITEM XIII -- PROOF OF NOTIFICATION INTERESTED PARTIES LIST.

ADDITIONAL NOTICE

ALL of Section of 21-18S-35E *Lessee/Operator:*

Oxy USA, Inc.

ALL of Section 22-18S-35E *Lessee:*

BLACK MOUNTAIN OPERATING, LLC
Attn: Luke Mildren
500 Main Street, Ste. 1200
Fort Worth, TX 76102
Cert. Rcpt: 7015 3010 0001 3789 9583

Operators:

Sundown Energy, LP Pogo Oil & Gas

ALL of Section 27-18S-35E *Lessee*:

MOBIL PRODUCING TEXAS & NM, INC.
 P.O. Box 2305
 Houston, TX 77252-2305
 Cert. Rcpt: 7015 3010 0001 3789 9590

Operator:

Pogo Oil & Gas



August 30, 2017

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

To Whom It May Concern:

Sundown Energy, LP, Dallas, Texas, has made application to the New Mexico Oil Conservation Division to expand its Reeves Queen Waterflood Project by converting the Reeves Queen WFU Well No.3 to injection. The proposed conversion will enhance production and improve efficiency. As indicated in the notice below, the well is located in Section 22, Township 18 South, Range 35 East in Lea County, New Mexico.

The published notice states that the interval will be from 4432 feet to 4450 feet.

Following is the notice published in the Hobbs News-Sun, Hobbs, New Mexico on or about September 1, 2017.

LEGAL NOTICE

Sundown Energy, LP, 16400 Dallas Parkway, St 100, Dallas, TX 75248, is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division for administrative approval to convert a well to injection in its Reeves Queen Waterflood Unit. The project was authorized for injection into the San Andres formation by Division Order R-13785 on January 21, 2014.

Sundown Energy proposes to now convert its Reeves Queen WF Unit Well No.3 (API No.30-025-03127) located 660' FSL & 660' FWL in Section 22, Township 18 South, Range 35 East, NMPM, Lea County, New Mexico as originally authorized.

Produced water from the lease and an on-lease water supply well will be will be injected through existing perforations from 4432 feet to 4450 feet at a maximum surface injection pressure of 886 psi (.2 psi/ft uppermost perforation). The applicant will request an increased injection pressure of 1200 psi based on inferred data from 2 injection wells previously step-rate tested and approved for this increase. Maximum injection rates are expected to be between 100 and 200 bwpd.

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

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

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

Thank you for your attention in this matter.

Best regards,

Ben Stone, SOS Consulting, LLC Agent for Sundown Energy, LP

Cc: Application File

C-108 - Item XIV

Proof of Notice (Certified Mail Receipts - cont.)

U.S. Postal Service CERTIFIED MAIL® RECEIPT Domestic Mail Only For delivery information, visit our viebsite at www.usps.com OFFICA Certified Mail Fee State Services & Fees (check box, add fee as optiontate) Return Receipt (furdoopy) Return Receipt (furdoopy) Return Receipt (furdoopy) Adult Signature Required Adult Signature Respired Attn: Luke Mildren City, State, 500 Main Street, Ste. 1200 Fort Worth, TX 76102
U.S. Postal Service To CERTIFIED MAIL® RECEIPT Domestic Mail Only For delivery information, visit our website at www.usps.com OFFICIAUSE Certified Mail Fee 3.35 Extra Services & Fees (check box, add fee as appropriate) Add Signature Receipt (terdoopy) Return Receipt (terdoopy) Return Receipt (terdoopy) Add Signature Required Add Signature Restricted Delivery & Here Total Postage

TUE - 05 SEP 4:30P ** 2DAY **



310 OLD SANTA FE TRL NM STATE LAND OFFICE - OIL & GAS **TERRY WARNELI** REF: SUNDOWN ROWFU WFX

BILL SENDER

(903) 488-9850

549J1/FF19/104C

After printing this label:

- 1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
- 2. Fold the printed page along the horizontal line.
- 3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

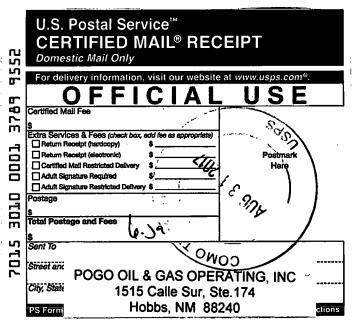
Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual decumented less Maximum for items of extraordinary value is \$1000. documented loss.Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

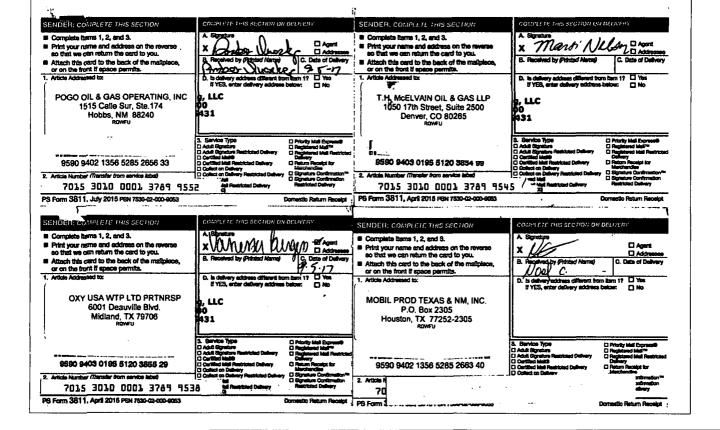
C-108 - Item XIV

Proof of Notice (Certified Mail Receipts)

		•	
38	U.S. Postal Service [™] CERTIFIED MAIL [®] RECEIPT Domestic Mail Only	1 ; 1 ;	Domestic Mail Only
35	For delivery information, visit our website at www.usps.com ^o .	7.5	For delivery information, visit our website at www.usps.com [©] .
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5	Certified Mail Fee	/ 37.E	\$ Extra Services & Fees (check box, add fee as appropriate)
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	Deauville Bivg.		Denver, CO 80265
	PS Form Midland, TX 79706 ctions		PS Form ictions







C-108 - Item XIV

Proof of Notice – Legal Notice Newspaper of General Circulation

LEGAL NOTICE September 1, 2017

Sundown Energy, LP, 16400 Dallas Parkway, St 100, Dallas, TX 75248, is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division for administrative approval to convert a well to injection in its Reeves Queen Waterflood Unit. The project was authorized for injection into the San Andres formation by Division Order R-13785 on January 21, 2014.

Sundown Energy proposes to now convert its Reeves Queen WF Unit Well No.3 (API No.30-025-03127) located 660' FSL & 660' FWL in Section 22, Township 18 South, Range 35 East, NMPM, Lea County, New Mexico as originally authorized.

Produced water from the lease and an on-lease water supply well will be will be injected through existing perforations from 4432 feet to 4450 feet at a maximum surface injection pressure of 886 psi (.2 psi/ft uppermost perforation). The applicant will request an increased injection pressure of 1200 psi based on inferred data from 2 injection wells previously step-rate tested and approved for this increase. Maximum injection rates are expected to be between 100 and 200 bwpd.

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. #32031

The above is the "Proof Copy" sent from the Hobbs News-Sun. The affidavit of publication will be forwarded as soon as it is received.

Affidavit of Publication

STATE OF NEW MEXICO **COUNTY OF LEA**

I. Daniel Russell. Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

> Beginning with the issue dated September 01, 2017 and ending with the issue dated September 01, 2017.

Publisher

Sworn and subscribed to before me this 1st day of September 2017.

Business Manager

My commission expires

January 29, 2019



OFFICIAL SEAL **GUSSIE BLACK Notary Public** State of New Mexico
My Commission Expires 1-29-19

Jusse VI

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

LEGAL NOTICE September 1, 2017

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Sundown Energy proposes to now convert its Reeves Queen WF Unit Well No 3 (API No 30-025-03127) located 660' FSL & 660' FWL in Section 22. Township 18 South Range 35 East NMPM, Lee County, New Mexico as originally authorized

Produced water from the lease and an on-lease water supply well will be will be injected through existing perforations from 4432 feet to 4450 feet at a maximum surface injection pressure of 886 pei (.2 psi/t uppermost perforation). The applicant will request an increased injection pressure of 1200 psi based on inferred data from 2 injection wells previously step-rate tested and approved for this increase. Maximum injection rates are expected to be between 100 and 200 bwpd.

Interested parties wishing to object to the proposed application must the with the New Mexico Oil Conservation Division, 1220 St. Francis Dr., Serse Fs., NM 87505, (505) 476-8480 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 into @seconsulting us

67104420

00198790

BEN STONE SOS CONSULTING, LLC. P.O. BOX 300 COMO, TX 75431

Affidavit of Publication

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My.commission.expires

January 29, 2019

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RECEIVED OCD

2017 SEP 12 P 2: 49

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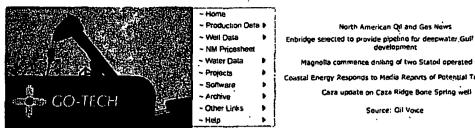
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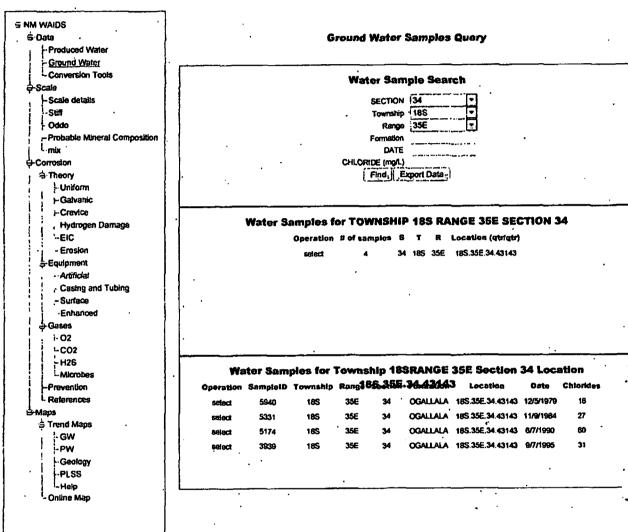
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BEN STONE SOS CONSULTING, LLC. P.O. BOX 300 COMO, TX 75431

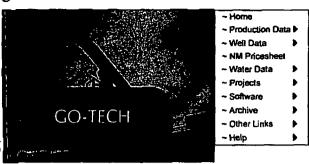


NYMEX LS Crude Enbridge selected to provide pipeline for deepwater Gulf of Mexico development Navajo WTXU -Henry Hub Magnolla commence drilling of two Statoil operated wells Coastal Energy Responds to Media Reports of Potential Transaction State Land Office Data Access OCD well/log (mage files PRRC NM-TECH NM-BGMR

Home>>- Water Data>>Ground Water



PETROLEUM RECOVERY RESEARCH CENTER, SOCORRO, NM-87801



North American Oil and Gas News Bonterra Energy and Spartan Oil complete business combination JKX Oil & Gas announces offering of convertible bonds

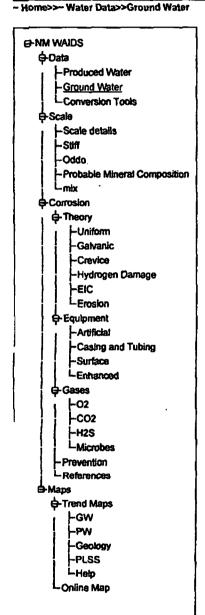
The independent members of the SandRidge Energy Board of Directors respond to related party allegations

Halliburton announces fourth quarter income from continuing operations of \$0.63 per diluted share

Source: Oil Voice

NYMEX LS Crude	96.24
Navajo WTXI	0
Henry Hub	3.418
Updated:	1/24/2013

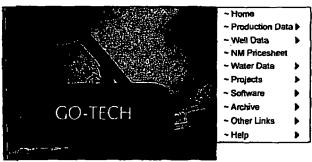
OCD well/log image files PRRC NM-TECH NM-BGMR



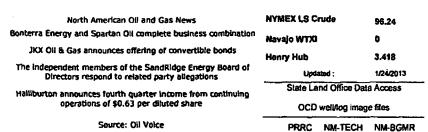
Ground Water Samples Query

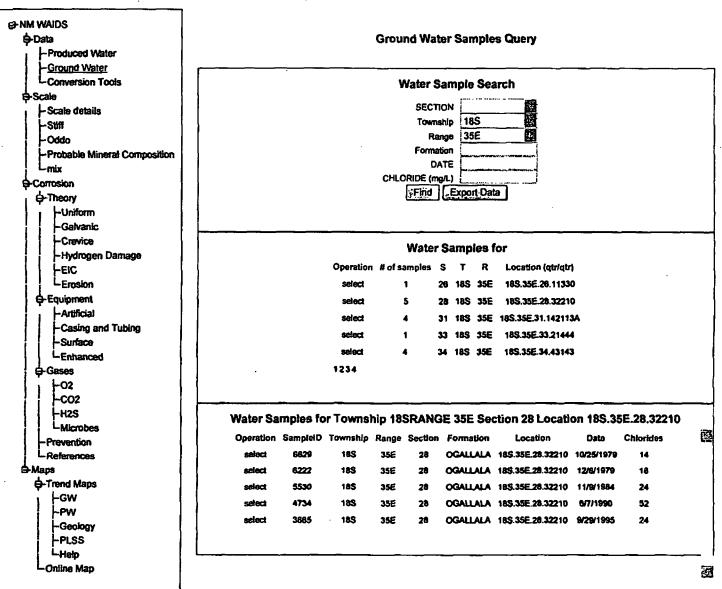
SECTION 18S 35E 35E				•	later S	g+11,	hia.						
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select 4 16 18S 35E 18S.35E.16.12223 select 1 18 18S 35E 18S.35E.16.11113 select 3 21 18S 35E 18S.35E.21.21000 1234 Water Samples for Township 18SRANGE 35E Section 16 Location 18S.35E.16.12223 Operation SampleID Township Range Section Formation Location Data Chlorides select 6383 18S 35E 16 OGALLALA 18S.35E.16.12223 12/9/1979 18 select 5788 18S 35E 16 OGALLALA 18S.35E.16.12223 11/9/1984 28 select 4903 18S 35E 16 OGALLALA 18S.35E.16.12223 6/7/1990 54						-		_					
select 1 18 183 35E 183.35E.18.11113 select 3 21 183 35E 183.35E.21.21000 1234 Water Samples for Township 18SRANGE 35E Section 16 Location 18S.35E.16.12223 Operation SampleID Township Range Section Formation Location Date Chlorides select 6383 185 35E 16 OGALLALA 189.35E.16.12223 12/6/1979 18 select 5788 183 35E 18 OGALLALA 189.35E.16.12223 11/9/1984 28 select 4903 18S 35E 18 OGALLALA 189.35E.16.12223 67/1990 54													
select 3 21 18S 3SE 18S.35E.21.21000 1234 Water Samples for Township 18SRANGE 35E Section 16 Location 18S.35E.16.12223 Operation SampleID Township Range Section Formation Location Date Chlorides select 6363 18S 35E 16 OGALLALA 18S.35E.16.12223 12/6/1979 18 select 5788 18S 35E 18 OGALLALA 18S.35E.16.12223 11/9/1984 28 select 4903 18S 35E 18 OGALLALA 18S.35E.16.12223 6/7/1990 54			select										
Water Samples for Township 18SRANGE 35E Section 16 Location 18S.35E.16.12223 Operation SampleID Township Range Section Formation Location Date Chlorides select 6383 18S 35E 16 OGALLALA 18S.35E.16.12223 12/0/1979 18 select 5788 18S 35E 16 OGALLALA 18S.35E.16.12223 11/9/1984 28 select 4903 18S 35E 16 OGALLALA 18S.35E.16.12223 6/7/1990 54			select										
Water Samples for Township 18SRANGE 35E Section 16 Location 18S.35E.16.12223 Operation SampleID Township Range Section Formation Location Data Chlorides select 6383 18S 35E 16 OGALLALA 18S.35E.16.12223 12/6/1979 18 select 5788 18S 35E 16 OGALLALA 18S.35E.16.12223 11/9/1984 28 select 4903 18S 35E 16 OGALLALA 18S.35E.16.12223 67/1990 54			select		3	21	185	35E	18S.35E.	21.21000	1		
Operation SampleID Township Range Section Formation Location Date Chlorides select 6383 18S 35E 16 OGALLALA 18S.35E.16.12223 12/9/1979 18 select 5786 18S 35E 16 OGALLALA 189.35E.16.12223 11/9/1984 28 select 4903 18S 35E 16 OGALLALA 18S.35E.16.12223 6/7/1990 54			1234										
select 6383 18S 35E 16 OGALLALA 18S.35E.16.12223 12/6/1979 18 select 5788 18S 35E 16 OGALLALA 18S.35E.16.12223 11/9/1984 28 select 4903 18S 35E 16 OGALLALA 18S.35E.16.12223 6/7/1990 54								<u> </u>					
Befort 6383 18S 35E 16 OGALLALA 18S.35E.16.12223 12/6/1979 18 select 5788 18S 35E 18 OGALLALA 18S.35E.16.12223 11/9/1984 28 select 4903 18S 35E 18 OGALLALA 18S.35E.16.12223 6/7/1990 54	Water Sa	mples fo	r Townsh	ilp 185	SRANG	E 3	5E	Sec	tion 16 I	ocatio.	on 185.3	5E,16.1	2223
select 5788 183 35E 18 OGALLALA 189.35E.18.12223 11/9/1984 28 select 4903 18S 35E 18 OGALLALA 189.35E.16.12223 6/7/1990 54	Operation	SampleID	Township	Range	Section	Fo	mat	don	Locat	lon	Date	Chloride	S
select 4903 18S 35E 16 OGALLALA 18S.35E.16.12223 6/7/1990 54	select	6383	183	35E	16	O	3ALL	ALA	18S.35E.1	6.12223	12/6/1979	18	
	select	5788	183	35E	16	00	BALL	ALA	189.35E.1	8.12223	11/9/1984	28	
select 4246 18S 35E 16 OGALLALA 18S.35E.16.12223 9/18/1995 31	select	4903	18\$		16							54	
	select	4246	185	35E	16	00	SALL	ALA	18S.35E.1	6.1 2223	9/18/1995	31	

FETROLEUM RECOVERY RESEARCH CENTER, SOCORRO, NM-87801



Home>>~ Water Data>>Ground Water





FETROLEUM RECOVERY RESEARCH CENTER, SOCORRO, NM-87801



December 19, 2012

KYLE PAXTON
SUNDOWN ENERGY
P. O. BOX 277
WICKETT, TX 79788

RE: REEVES QUEEN WATERFLOOD UNIT

Enclosed are the results of analyses for samples received by the laboratory on 11/20/12 11:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 on accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/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.

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



SUNDOWN ENERGY

P. O. BOX 277

WICKETT TX, 79788

Project: REEVES QUEEN WATERFLOOD UNI

Project Number: NOT GIVEN

Project Manager: KYLE PAXTON Fax To: NOT GIVEN

Reported:

19-Dec-12 15:56

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOUTH VACUUM #5	H202825-01	Water	16-Nov-12 00:00	20-Nov-12 11:10
LEA 403 STATE #2	H202825-02	Water	20-Nov-12 00:00	· 20-Nov-12 11:10
COMP OF 5 VACUUM &	LEAH202825-03	Water	20-Nov-12 00:00	20-Nov-12 11:10

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 14:

SUNDOWN ENERGY P. O. BOX 277 Project: REEVES QUEEN WATERFLOOD UN

Reported:

P. O. BOX 277 WICKETT TX, 79788 Project Number: NOT GIVEN

Project Manager: KYLE PAXTON
. Fax To: NOT GIVEN

19-Dec-12 15:56

SOUTH VACUUM #5

H202825-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analys	Analyzed	Method	Notes
		Cardin	al Laborat	ories					
Inorganic Compounds		•	•			•			
Alkalinity, Bicarbonate	34.2	5.00	mg/L	1	2110104	НМ	26-Nov-12	310.t	
Calcium	3090	1.60	mg/L	1	2101718	ŀЮМ	30-Nov-12	SM3500Ca- D	
Alkalinity, Carbonate	ND	0.00	mg/L ˙	1	2110104	HM	26-Nov-12	310.1	
Chloride*	13800	4,00	mg/L	1	2112104	HM	26-Nov-12	4500-CI-B .	
Conductivity*	48300	1.00	uS/cm	1	2112607	HM	26-Nov-12	120.1	
Magnestum	. 899	1.00	mg/L	1	2101718	HM	30-Nov-12	SM3500Mg- E	
pH°	6.11	0.100	pH Units	1	2112607	HM	26-Nov-12	150.1	
Potassium	185	1.00	mg/L	. 1	2101718	нм	30-Nov-12	HACH 8049	
Sodium	3730	1.00	mg/L	1	2101718	НМ	30-Nov-12	Calculation	
Sulfate*	293	10.0	mg/L	3	2112703	AP	27-Nov-12	375,4	
TDS*·	23300	5.00	mg/L	t	2112602	HM	21-Nov-12	160.3	
Alkalinity, Total*	28.0	4.00	mg/L	1	2110104	НМ	26-Nov-12	310.1	

Cardinal Laboratories

*=Accredited Analyte

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Celay & Keene



PHONE (575) 393-2326 * 101 E. MARLAND * HOBBS, NM 88240

Analytical Results For:

SUNDOWN ENERGY P. O. BOX 277 Project: REEVES QUEEN WATERFLOOD UNI

Reported: 19-Dec-12 15:56

P. O. BOX 277 WICKETT TX, 79788 Project Number: NOT GIVEN

Project Manager: KYLE PAXTON

Fax To: NOT GIVEN

LEA 403 STATE #2 H202825-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Betch	Analyst	Analyzed	Method	Notes
		Cardina	al Laborat	ories					•
Ingreanic Compounds			<u>.</u>						
Alkalinity, Bicarbonate	503	5.00	mg/L	. 1	2110104	HM ·	26-Nov-12	310.1	
Calcium	2480	1.60	mg/L ·	1	21017 18	ЮM	30-Nov-12	SM3500Ca- D	
Alkalinity, Carbonate	ND	0.00	mg/L	ı	2110104	HM	26-Nov-12 ·	310.1	
Chloride*	19400	4.00	mg/L	1	2112104	HIM	26-Nov-12	4500-CI-B	•
Conductivity*	58780	1.00	uS/cm	. 1	2112607	HIM .	26-Nov-12	120.1	
Magnesium	267	. 1.00	mg/L	1	2101718	HM	30-Nov-12	SM3500Mg- E	
рН*	7.56	0.100	pH Units	1	2112607	HM	26-Nov-12	150.1	
Potassium -	575	1.00	mg/L	i	2101718	HM	30-Nov-12	HACH 8049	
Sodium	.9190	1.00	<u>mg</u> /L	1 .	2101718	HM	30-Nov-12	Calculation	
Sulfate*	261	10.0	mg/L	.1	2112703	ΑP	27-Nov-12	375,4	
TDS*	32300	5.00	mg/L	t	2112602	HM	21-Nov-12	160.1	
Alkalinity, Total*	412	4,00	മു ∕L	1	2110104	HM	26-Nov-12	310.1	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keens



SUNDOWN ENERGY P. O. BOX 277 **WICKETT TX, 79788** Project: REEVES QUEEN WATERFLOOD UN

Reported: 19-Dec-12 15:56

Project Number: NOT GIVEN

Project Manager: KYLE PAXTON

Fax To: NOT GIVEN

COMP OF S VACUUM & LEA 403 H202825-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Betch	Analyst	Analyzed	Method	Notes					
·	Cardinal Laboratories													
Inorganic Compounds	·		· · · · · · · · · · · · · · · · · · ·						•					
Alkalinity, Bicarbonate	317	5.00	mg/L	1	2110104	нм	13-Doc-12	310,1						
Aikalinity, Carbonate	ND	0.00	mg/L	1	2110104	HM	13-Dec-12	310.1						
Chloride*	16700	4.00	mg/L	1	2121905	нм	19-Dec-12	4500-CI-B						
Conductivity*	- 50900	1.00	uS/can	1	2121806	AP.	18-Dcc-12	120.1						
p H •	7.57	0.100	pH Units	t	2121910	HM	11-Dec-12	150.1						
Resistivity	0,196	•	Ohms'm	1 .	2121908	HM	18-Das-12	120.1						
Specific Gravity @ 60° F	1.016	· 0.000	(blank)	4	2121909	нм	19-Dec-12	SM 2710F						
Sulfate*	296	10.0	mg/L	1	2120501	AP	10-Dec-12	375,4						
TDS*	33300	5.00	mg/L	1,	2120605	, AP	13-Dec-12	160.1	•					
Alkelinity, Total*	260 ^{'.}	4.00	mg/L.	1	2110104	нм	13-Dec-12	310.1						
Dissolved Metals								· · · · · · · · · · · · · · · · · · ·						
Berium ·	ND	1.00	mg/L	100	2121907	CK	13-Dec-12	200.7	GAL					
Calcium	2209	100	mg/L	100	2121907	CK.	13-Dec-12	200.7	GAL					
Lren	ND.	5.00	mg/L	100	2121907	CK	13-Dec-12	200,7	GAL					
Magnesium ·	619	100	mg/L	100	2121907	CK	13-Dec-12	200.7	GAL					
Potassium	. 326	100	mg/L	100	2121907	CK	13-Dec-12	200.7	GAL					
Sodtum	7650	100	mg/L	100	2121907	ск	13-Dec-12	200.7	GAL					

Cardinal Laboratories

*=Accredited Analyte

SUNDOWN ENERGY P. O. BOX 277

Project: REEVES QUEEN WATERFLOOD UNI

Reported: 19-Dec-12 15:56

WICKETT TX, 79788

Project Number: NOT GIVEN Project Manager: KYLE PAXTON

Fax To: NOT GIVEN

Inorganic Compounds - Quality Control

Cardinal Laboratories

•		Reporting		Spike	Source	•	%REC		RPD		
Analyte	Result	Limit	Uzits	Lovel	Result	*REC	Limits	RPD	Limit	Notes	
Batch 2101718 - *** DEFAULT PREP ***	<u> </u>					·					
Blank (2101718-BLK1)		·		Prepared: 1	7-Oct-12 A	nalyzed: 0	2-Nov-12				
Magnesium	ND	1.00	mg/L								
Popassium .	ИD	1,00	mg/L	•							
Celcium	ND	. 1.60	തു /L								
LCS (2101718-BS1)	Prepared & Analyzed: 17-Oct-12										
Opposium	3.00		mg/L	3.00		100	80-120				
Magnesium	54.4		mg/L	50.0		· 109	80-120		•		
Calcium	20.8		mg/L	. 20.0		104	80-120				
Duplicate (2101718-DUP1)	Son	rce; H202593-	-01 ·	Prepared: I	7-Oct-12 A	nalyzed: 0	-Nov-12				
Magnesium	1820	1.00	mg/L	 -	1880			3.24	20		
Calcium	6710	1.60	mg/L		6410			4.57	20		
oussium	540	1.00	mg/L		540			0.00	20		
Batch 2110104 - General Prep - Wet Chem		•									
Burn Printos - Genetan Lich - Mel Cuem											
Bank (2110104-BLK1)				Prepared &	Analyzed:	31-Oct-12					
Hank (2110104-BLK1)	· ·	. 0.00	. mg/L	Prepared &	Analyzed:	31-Oct-12					
Namk (2110104-BLK1) Ukalinity, Carbonate	ND ND	5.00	mg/L mg/L	Prepared &	Analyzed:	31-Oct-12	<u> </u>				
Hank (2110104-BLK1) Balinity, Carbonate Ballinity, Bicarbonate				Prepared &	Analyzed:	31-Oct-12	:				
Brok (2110104-BLK1) Mralinity, Carbonate Mralinity, Bicarbonate Mralinity, Total	ND	5.00	mg/L	•	Analyzed: Analyzed:		:				
thruk (2110104-BLK1) thralinity, Carbonate thellinity, Bicarbonate thellinity, Total CS (2110104-BS1)	ND	5.00	mg/L	•			80-120				
Blank (2110104-BLK1) Walinity, Carbonate Walinity, Bicarbonate Walinity, Total CS (2110104-BS1) Whalinity, Carbonate	ND ND	5.00 4.00	mg/L mg/L	•			80-120 80-120				
Shruk (2110104-BLK1) Walinity, Carbonate Ukalinity, Bicarbonate Ukalinity, Total CS (2110104-BS1) Ukalinity, Carbonate Ukalinity, Carbonate Ukalinity, Bicarbonate	ND ND	5.00 4.00	mg/L mg/L	•						•	
Shruk (2110104-BLK1) Alkalinity, Carbonate Alkalinity, Bicarbonate Alkalinity, Total CS (2110104-BS1) Alkalinity, Carbonate Alkalinity, Bicarbonate Alkalinity, Bicarbonate Alkalinity, Total	ND ND ND	5.00 4.00 0.00 5.00	mg/L mg/L mg/L mg/L	Prepared &		31-Oct-12	80-120				
	ND ND ND	5.00 4.00 0.00 5.00	mg/L mg/L mg/L mg/L	Prepared &	Analyzed:	31-Oct-12	80-120		20		
Shruk (2110104-BLK1) Alkalimity, Carbonate Alkalimity, Bicarbonate Alkalimity, Total CS (2110104-BS1) Alkalimity, Carbonate Alkalimity, Bicarbonate Alkalimity, Total CS Dup (2110104-BSD1)	ND ND	5.00 4.00 0.00 5.00 4.00	mg/l. mg/l. mg/l. mg/l. mg/L	Prepared &	Analyzed:	31-Oct-12	80-120 80-120	0.00	20 20	•	

Cardinal Laboratories

*=Accredited Analyte.

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 14



SUNDOWN ENERGY P. O. BOX 277

Project: REEVES QUEEN WATERFLOOD UN

Reported: 19-Dec-12 15:56

WICKETT TX, 79788

Project Number: NOT GIVEN Project Manager: KYLE PAXTON Fax To: NOT GIVEN

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	WREC	%REC	RPD .	RPD Limin	Notes
Batch 2112104 - General Prep - Wet Chem										
							· · · · · · · · · · · · · · · · · · ·			
Blank (2112104-BLK1)				Prepared &	Analyzed:	26-Nov-1	2			
Chloride	ND	4.00	മു /L			•				•
LCS (2112104-BS1)		:		Prepared &	Analyzed:	26-Nov-1	2			
Chloride	104	4.00	mg/L	100		104	80-120			
LCS Dup (2112104-BSD1)				Prepared &	k Analyzed;	26-Nov-1	2			
Chloride	104	4.00	mg/L	100		104	80-120	0.00	20	
Batch 2112602 - Filtration					• • • • • • • • • • • • • • • • • • • •					
Blank (2112602-BLK1)				Prepared;	21-Nov-12 A	analyzed:	29-Nov-12	•		
TDS	ND	5.00	mg/L							•
LCS (2112602-BS1)			<u>.</u>	Prepared:	21-Nov-12 A	Lnalyzed: 2	29-Nov-12			
TDS	239		· mg/L	240		99,6	80-120	•		•
Duplicate (2112602-DUP1)	Sou	rce: H202812	-03 .	Prepared: 2	21-Nov-12 A	nalyzed: 2	29-Nov-12			
TDS	1560	5.00	mg/L	•	1660			6.21	20	• .
Batch 2112607 - General Prep - Wet Chem		·			<u> </u>					•
LCS (2112607-BS1)				Prepared &	t Analyzed:	26-Nov-12	2			
pH	7.05		pH Units	7.00		101	90-110			
Conductivity	1410		uS/cm	1410		. 100	80-120	•	•	
Duplicate (2112607-DUP1)	Son	ree: H202825	-01 .	Prepared &	: Analyzed:	26-Nov-12	2		·	•
Conductivity	40300	1.00	uS/cm		40300			0.00	20	
pH	6.14	0.100	pH Units		6.11	·		0.490	20	

Cardinal Laboratories

*=Accredited Analyte



SUNDOWN ENERGY P. O. BOX 277 WICKETT TX, 79788 Project: REEVES QUEEN WATERFLOOD UNI

Project Number: NOT GIVEN

Reported: 19-Dec-12 15:56

Project Manager: KYLE PAXTON Fax To: NOT GIVEN

Inorganic Compounds - Quality Control

Cardinal Laboratories

	_	Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	*REC	Limits	RPD	Limit	Notes
Batch 2112703 - General Prep - Wet Chem										
Blank (2112703-BLK1)				Prepared &	Analyzed:	27-Nov-12	· · ·			
Solfate	ND	10.0	mg/L							
LCS (2112703-BS1)				Prepared &	Analyzed:	27-Nov-12	·			
Sulface	16.9	0.01	mg/L	20.0		84.6	80-120			
LCS Dup (2112703-BSD1)				Prepared &	Analyzed:	27-Nov-12	·			
Sulfate	19,4	10.0	mg/L	20.0		97.2	80-120	13.8	. 20	
Batch 2120501 - General Prep - Wet Chem		<u>.</u>					<u>:</u>	·		<u></u>
Blank (2120501-BLK1)				Prepared &	Analyzed:	10-Dec-12				
Sulfate	ND	10.0	mg/L					•		
LCS (2120501-BS1)				Prepared &	: Analyzed:	10-Dec-12	· .			
Sulfate	16.7	10.0	mg/L	20,0		83.7	80-120			
LCS Dup (2120\$01-BSD1)				Prepared &	: Analyzed:	10-Dec-12				
Sulfate	18.1	10,0	mg/L	20.0		90,4	80-120	7,64	20	
Batch 2120605 - Filtration									<u> </u>	<u> </u>
Blank (2120605-BLK1)				Prepared &	Analyzed:	06-Dec-12				
TDS	ND	5.00	mg/L						,	
LCS (2120605-BS1)	<u> </u>			Prepared &	Analyzed:	06-Dec-12				
TDS .	223		mg/L	240		92,9	80-120			

Cardinal Laboratories

*=Accredited Analyte



PHONE (575) 393-2326 * 101 E. MARLAND * HOBBS, NM 88240

Analytical Results For:

SUNDOWN ENERGY P. O. BOX 277

Project: REEVES QUEEN WATERFLOOD UNI

Reported: 19-Dec-12 15:56

WICKETT TX, 79788

Project Number: NOT GIVEN Project Manager: KYLE PAXTON Fax To: NOT GIVEN

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyto	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2120605 - Filtration			· ——							<u>.</u>
Duplicate (2120605-DUP!)	Sour	e: H202905	-01	Prepared &	Analyzed:	06-Dec-12	•			
TOS	1200	5.00	mg/L		1140			5.13	20	
Batch 2121806 - General Prep - Wet Chem										
LCS (2121806-BS1)				Prepared &	Analyzed:	18-Dec-12	_			
Conductivity	478		uS/cm	500	-	95.6	80-120	•		
Duplicate (2121806-DUPI)	Sour	e: H203018	-61	Prepared &	: Analyzed:	18-Dec-12			,	
Conductivity	1530	1,00	uS/cm		1530		•	0.00	20	_
Batch 2121905 - General Prep - Wet Chem		, 			·			•		
Blank (2121905-BLK1)			,	Prepared &	Analyzed:	19-Dec-12	•			
Chloride	МD	4.00	mg/L							
LCS (2121905-BS1)			·	Prepared &	Analyzed:	19-Dec-12				<u> </u>
Chloride	100	4.00	mg/L	100		100	80-120		•	
LCS Dup (2121905-BSD1)				Prepared &	Analyzed:	19-Dec-12				
Chloride	108	4.00	mg/L	100		108	80-120	7,69	20	
Batch 2121909 - General Prep - Wet Chem			•							
Duplicate (2121909-DUP1)	Source	e: H202825	-03	Prepared &	Analyzed:	19-Dec-12				
Specific Gravity @ 60° P	3.014	0.000	(blank)		1.016			0.216	200	

Cardinal Laboratories

*=Accredited Analyte



PHONE (575) 393-2326 * 101 E. MARLAND * HOBBS, NM 88240

Analytical Results For:

SUNDOWN ENERGY

Project: REEVES QUEEN WATERFLOOD UN)

Reported:

P. O. BOX 277

Project Number: NOT GIVEN

19-Dec-12 15:56

Project Manager: KYLE PAXTON

WICKETT TX, 79788

Fax To: NOT GIVEN

Inorganic Compounds - Quality Control

Cardinal Laboratories

Anelyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2121910 - General Prep - Wet Chem						•				
LCS (2121910-BS1)	·			Prepared &	. Analyzed:	11-Dec-12			· · · · ·	
рН	7.00		pH Units	7.00		100	90-110			
Duplicate (2121910-DUP1)	Source: H202825-03			Prepared &	Analyzed:	11-Dec-12				
pH	7.61	0.100	pH Units		7.57		<u></u>	0.527	20	

Cardinal Laboratories

		neivedOlderOrde) (
C-108 Review	v Checklist: Rec	eived Add. Requ	est:	Reply Date:	Suspended:	[Ver 15]
ORDER TYPE WE	PMX/SWD Num	nber: Orde	er Date:	Legacy Permi	ts/Orders: <u># -13</u>	785 FRI
Well No. 6 Well Name(s): <u>Reco</u>	ves Qu	cei	r uf		
API: 30-0 75-0312	2 Spud Date	5/02/1958	New or Old	: (UIC Class I	l Primacy 03/07/1982)
API: 30-0 75-0312 660F5L Footages 660FWL	Lot	or Unit <u>//</u> Sec <u>2 2</u>	Tsp/	PS Rge 3	E County Le	9
General Location: 220	mileshy	1 Hubbs Pool:	pee	UES, 1942	<u>En</u> Pool No.: <u>53</u>	070
BLM 100K Map: <u>H0 D S</u>	_ Operator: <u>Sun</u>	down Energ)	OGRI	D: 2326//	act: <u>Ben 5</u> +	on e As ant
COMPLIANCE RULE 5.9: Total Wel	ls: 37 Inactive	e: 1 Fincl Assur: 0	Comp	l. Order?MA IS	5.9 OK? Date:	10-3249
WELL FILE REVIEWED Current	Status: Act	-ive				
WELL DIAGRAMS: NEW: Proposed	or RE-ENTER: E	Before Conv. (1) After (Conv.	/ Logs in Imaging:		
Planned Rehab Work to Well:						
Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)		Cement Sx)or Cf	Cement Top and Dete	rmination M ethod
Plannedor ExistingSurface	1-1-30	332	Stage Tool	400	SUPFRE	elvison
Planned_or ExistingInterm/Prod		4000		1650	SAFFACE	
Planned_or ExistingInterm/Prod		4.567			CIVE.	1015421
\ <u>~~</u>	1.18142	4,56		1280	39170	
Planned_or Existing _ Prod/Line	· · · · · · · · · · · · · · · · · · ·					
Planned_or Existing Liner	. 60		Inj Length			
Planned_or Existing OH PERF	. , ,,		int rendui	<u>Comp</u>	letion/Operation De	tails:
Injection Lithostratigraphic Units:	Depths (ft)	njection or Confining Units	Tops		PBTD 4	
Adjacent Unit: Litho. Struc. Por.		•		NEW TD	_ NEW PBTD	
Confining Unit: Litho. Struc. Por.				NEW Open Hole	or NEW Perfs	D FOIY
Proposed Inj Interval TOP:				Tubing Size	in. Inter Coated?	
Proposed Inj Interval BOTTOM:				Proposed Packer D	epth <u>433 —</u> ft	
Confining Unit: Litho. Struc. Por.					<u>4332</u> (100-ft lim	
Adjacent Unit: Litho. Struc. Por.				•	face Press. 1200	
AOR: Hydrologic a	ind Geologic Info	ormation			%&7 (0.2 psi p	
POTASH: R-111-P Noticed?				alado T: 765 B: 315	NW: Cliff House f	m
FRESH WATER: Aquifer Q	•	1 / 1	HYDR	O AFFIRM STATEM	ENT By Qualified Pers	ion (
NMOSE Basin: 64					s?, FW Analy	
Disposal Fluid: Formation Source						
Disposal Int: Inject Rate (Avg/Max	BWPD): 100/2	<u> </u>	ers?/	Source:	System: Closed or	Open
HC Potential: Producing Interva	l?Formerly Pro	ducing?Method	: Logs/DST/	P&A/Other	2-Mile Radius Pool	Мар 🔘
AOR Wells: 1/2-M Radius Map?	Well List?	Total No. Wells	Penetrating	Interval:	Horizontals?	_
Penetrating Wells: No. Active We	4.1		•		Diagrams?	
Penetrating Wells: No. P&A Wells			_		Diagrams?	<u>X</u>
NOTICE: Newspaper Date 6-01	-2017 Mineral C	Owner NMSV	Surface	Owner Mysv	N. Date_	8-3/-2011
RULE 26.7(A): Identified Tracts?	Affected Pers	ons: BLACK	MUKINT	cin, Page, 6	nobi/ N. Date_	G-167017
Irder Conditions: Issues:	/					

dd Order Cond:



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

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

(R=POD has been replaced, O=orphaned,

C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

		POD Sub-		^	^	^								
POD Number	Code		County	_	Q 16	-	Sec	Tws	Rng	x	Y	DepthWellDepth'		Vater olumn
<u>L 02520</u>		L	LE		4		23	18S	35E	647088	3622989*	134	78	56
<u>L 02678</u>		L	LE		3	4	22	185	35E	645890	3622166*	200	58	142
<u>L 02678</u>	R	L	LE		3	4	22	18S	35E	645890	3622166*	200	58	142
L 02678 POD2	R	L	LE		3	4	22	18S	35E	645890	3622166*	185	58	127
L 02678 POD3		L	LE		3	4	22	18S	35E	645890	3622166*	190	154	36
L 02679		L	LE		4	4	21	18S	35E	644680	3622151*	200	68	132
<u>L 02679</u>	R	L	LE		4	4	21	18S	35E	644680	3622151*	200 .	68	132
L 02679 POD2		L	LE		3	2	22	18S	35E	645876	3622973*	187	65	122
<u>L 02680</u>		L	LE		1	2	21	18S	35E	644257	3623357*	190	59	131
<u>L 03772</u>		L	LE		2	2	21	18S	35E	644659	3623361*	130	60	70
<u>L 03783</u>		L	LE	•			27	18S	35E	645710	3621138*	115	65	50
<u>L 03866</u>		L	LE		3	3	22	18S	35E	645082	3622155*	127	65	62
<u>L 03963</u>		L	LE		1	2	27	18S	35E	645896	3621762*	127	70	57
<u>L 04399</u>		L	LE		3	3	22	18S	35E	645082	3622155*	90	75	15
L 05810		L	LE		2	3	22	18S	35E	645479	3622564*	145	95	50
<u>L 06868</u>		L	LE	1	4	3	26	18S	35E	647026	3620666*	110	57	53
L 06869		L	LE		1	3	26	18S	35E	646717	3620966*	125	60	65
<u>L 09373</u>		L	LE		1	1	26	18S	35E	646704	3621773*	120	60	60

Average Depth to Water: Minimum Depth:

> Maximum Depth: 154 feet

Record Count: 18

PLSS Search:

Section(s): 21-23, 26-28

Township: 18S

Range: 35E

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.

9/13/17 3:38 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

70 feet

57 feet

^{*}UTM location was derived from PLSS - see Help