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

FORM C-108 Revised June 10, 2003

Exhibit No. 9

APPLICATION FOR AUTHORIZATION TO INJECT

1.	PURPOSE: X Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Yes X No
II.	OPERATOR: Sundown Energy, LP (OGRID-232611)
	ADDRESS: 13455 Noel Road, Suite 2000 Dallas, Texas 75240
	CONTACT PARTY: Ross Pearson PHONE: (214) 368-6100
Ш.	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.
IV.	Is this an expansion of an existing project? Yes X 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-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
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; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected 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 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.
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 need not be resubmitted)
*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
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.	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 best of my knowledge and belief.
	NAME: Ross Pearson TITLE: Area Production Manager
	SIGNATURE: Non Perron DATE: 4/2/2013
	E-MAIL ADDRESS:rpearson@sundownenergy.com If the information required under Sections VI, VIII, X, and XI above has been pi Please show the date and circumstances of the earlier submittal:
)ICT	PIRITION: Original and one conv to Santa Fe with one conv to the appropriate) May 16, 2013

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.

C-108 Application Sundown Energy, LP

State of New Mexico W No. 2 API No. 30-025-26605 660' FNL & 660' FWL (Unit D) Section 28, T-18S, R-36E Bobbi No. 4 API No. 30-025-27586 1650' FSL & 990' FWL (Unit L) Section 20, T-18S, R-36E

Lea County, New Mexico

- I. The purpose of the application is to request authorization to inject into the San Andres formation within the State of New Mexico W No. 2 and the Bobbi No. 4 for the purpose of instituting a waterflood project within the proposed Bobbi State Unit, which will initially comprise all of Section 20, the N/2 of Section 29 and the NW/4 of Section 28, all in Township 18 South, Range 36 East, NMPM, Lea County, New Mexico.
- II. Sundown Energy, LP ("Sundown")
 13455 Noel Road
 Suite 2000
 Dallas, Texas 75240
 Contact Party: Ross Pearson (214) 368-6100
- III. Injection well data sheets and wellbore schematic diagrams showing the current and proposed wellbore configurations are attached.
- IV. This is not an expansion of an existing project.
- V. Attached is a map that identifies all wells/leases within a 2-mile radius of the proposed injection wells and a map that identifies the ½ mile "Area of Review" ("AOR") for both injection wells.
- VI. AOR well data is attached. Well construction data is included for all existing wells within the AOR. Also included are wellbore diagrams for each PA'd well within the AOR. An examination of the well completion and plugging data indicates that all AOR wells are adequately cased, cemented and/or plugged and abandoned in order to preclude the movement of fluid from the injection zone into any fresh water aquifers.
- VII. 1. The average injection rate is anticipated to be approximately 500 BWPD. The maximum rate will be approximately 1,500 BWPD. If the average or maximum rates increase in the future, the Division will be notified.
 - 2. This will be a closed system.

- 3. Sundown will initially inject water into the subject wells at a surface pressure that is in compliance with the Division's limit of 0.2 psi/ft., or approximately 1,057 psi. The maximum surface injection pressure is anticipated to be approximately 2,500 psi. If a surface injection pressure above 1,057 psi is necessary, Sundown will conduct step rate injection tests to determine the fracture pressure of the San Andres formation in this area.
- 4. Produced water from the San Andres formation originating from Sundown operated wells in this area will be injected into the subject wells. If necessary, Sundown will also utilize Delaware produced water as make-up water. Attached are San Andres water analysis from Sundown's State of New Mexico Wells No. 1 & 2 and Bobby Well No. 5. Also attached is a Delaware produced water analysis from RKI Exploration & Production, LLC's TORO 22 Well No. 1. Also attached is a compatibility test indicating that slight scaling may result from combining San Andres and Delaware produced waters.
- 5. Injection is to occur into a formation that is oil productive.

VIII. Geologic Series:

Guadalupian

Geologic Formation:

San Andres

Thickness:

626 Feet

Lithology:

Sandstone

USDW's:

Ogallala is present at a maximum depth of

approximately 160 feet according to attached data obtained from the New Mexico State Engineer's Office. The average depth to water in this area is

approximately 54 feet.

- IX. No stimulation of the wells is planned
- X. Logs were filed at the time of drilling.
- XI. Attached is a water analysis from a fresh water well located within one mile of the proposed injection wells.
- XII. Affirmative statement is enclosed.
- XIII. Proof of Notice is enclosed.

INJECTION WELL DATA SHEET

OPERATOR: Sur	ndown Energy, LP			· · · · · · · · · · · · · · · · · · ·					
WELL NAME & NUMB	ER: State of New Mexico W No	o. 2 (API No. 30-025-26605)	·-····································						
WELL LOCATION:	660' FNL & 660' FWL	D	28	18 South	36 East				
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE				
<u>WELLBO</u>	RE SCHEMATIC	<u>WEI</u>	LL CONSTRUCT Surface Cas						
See Attack	hed Wellbore Schematic	Hole Size: 12 1/4"		Casing Size: 8 5/8	<u>8" @ 1,876'</u>				
			925 Sx. c	or	ft³				
		Top of Cement:	Surface I	Method Determined	d: Circulated				
		Intermediate Casing							
·		Hole Size:		Casing Size:					
		Cemented with:		or	ft³				
		Top of Cement:	1	Method Determine	d: <u>·</u>				
			Production C	asing					
		Hole Size: <u>7 7/8"</u>		Casing Size: 4 1/2" (<u>@ 5,670°</u>				
		Cement with: 275 S	<u>Sx.</u> (or	ft³				
		Top of Cement: 4,67	<u>'0'</u> 1	Method Determine	d: Calculate				
		Total Depth: 5,670'	·	·					
·			Injection Interv	<u>al</u> .					

Perforated Interval -5,320'-5,584'

INJECTION WELL DATA SHEET

Tubin	ıg Size:	2 3/8" 4.7# J-55	Lining Material:	Internally Plastic Coate	d
Type	of Packer:	Baker AD-1 Injection Packer	r		
Packe	er Setting Depth:	5,270' or within 100'	of the uppermost injection p	perforations	
Other	Type of Tubing	/Casing Seal (if applicable):	None		
		Addition	onal Data		
1.	Is this a new w	vell drilled for injection:	Yes	XNo	
	If no, for what formation.	purpose was the well originally drill	led: Well was drilled in	1979 as a producing well	in the San Andres
2.	Name of the Ir	njection Formation: San A	ndres	:	
3.	Name of Field	or Pool (if applicable): West	Arkansas Junction-San Andr	es Pool (Oil-2503)	
4.		ever been perforated in any other zone ement or plug(s) used.	e(s)? List all such perforated	l intervals and give pluggii	ng detail,
	None				
5.	Give the name in this area:	e and depths of any oil or gas zones u	underlying or overlying the p	roposed injection zone	
		oposed waterflood project area in Sec 00'); Arkansas Junction-Devonian P		. R-36E: Arkansas Junctio	on-Penn Pool

Current Wellbore Configuration

State of New Mexico W No. 2 API No. 30-025-26605 660' FNL & 660' FWL, Unit D Section 28, T-18S, R-36E

Drilled:

12/1979

12 ¼" Hole; Set 8 5/8" 24# csg. @ 1876' Cemented w/925 sx. Cement circulated to surface

TOC @ 4,670' by calc.

San Andres Perforations: 5,320'-5,584'

7 7/8" Hole; Set 4 1/2" 9.5# csg. @ 5,670'

Cemented w/275 Sx.
Calculated TOC @ 4,670'

T.D. 5,670'

Calculated TOC @ 4,670'

T.D. 5,670'

INJECTION WELL DATA SHEET

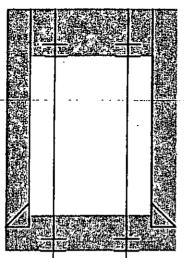
OPERATOR: Sundown Energy, LP			· · · · · · · · · · · · · · · · · · ·	
WELL NAME & NUMBER: Bobbi No. 4 (API No. 30	-025-27586)	 	:	
WELL LOCATION: 1650' FSL & 990' FWL	L	20	18 South	36 East
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE
WELLBORE SCHEMATIC	<u>WELL C</u>	ONSTRUCT Surface Casir		
See Attached Wellbore Schematics	Hole Size: 11"	Ca	asing Size: <u>8 5/8</u>	<u>"@1,901'</u>
	Cemented with: 700	OSx. or	<u> </u>	ft³
	Top of Cement: Sur	rface M	ethod Determined	: Circulated
	<u>In</u>	termediate Ca	sing	
	Hole Size:	c	Casing Size:	
	Cemented with:	or	· · · · · · · · · · · · · · · · · · ·	ft ³
	Top of Cement:	M	lethod Determined	l:
	.]	Production Ca	sing	,
	Hole Size: 7 7/8"	C	asing Size: 4 ½" (<u>0,5,600'</u>
	Cement with: 125 Sx.	oi		ft³
	Top of Cement: 5,100'	M	fethod Determined	l: Calculated
	Total Depth: 5,600'		· ·	
	<u>Inj</u>	ection Interva	1	

Perforated Interval -5,286'-5,572'

INJECTION WELL DATA SHEET

Tubin	g Size: 2 3/8" 4.7# J-55	Lining Material:	Internally Plastic Coat	ted
Туре	of Packer: <u>Baker AD-1 Injection Packer</u>			
Packe	er Setting Depth: 5,236' or within 100' o	of the uppermost injection	perforations	<u> </u>
Other	Type of Tubing/Casing Seal (if applicable):	None		
	Additiona	al Data		
1.	Is this a new well drilled for injection:	Yes	XNo	1
	If no, for what purpose was the well originally drilled formation. Well was plugged and abandoned in 2009			l in the San Andre
2.	Name of the Injection Formation: San And	dres		
3.	Name of Field or Pool (if applicable): West Ar	rkansas Junction-San And	res Pool (Oil-2503)	
4.	Has the well ever been perforated in any other zone(s i.e. sacks of cement or plug(s) used.	s)? List all such perforated	l intervals and give plugg	ing detail,
	None			
5.	Give the name and depths of any oil or gas zones und in this area:	derlying or overlying the p	proposed injection zone	1
	Within the proposed waterflood project area in Section (10.000'-11.000'): Arkansas Junction-Devonian Poo		S, R-36E: Arkansas Junct	ion-Penn Pool

Current Wellbore Configui on



Perforate 4 ½" csg. @ 400' & cement to surface w/110 sx.

ndown Energy, LP Bobbi No. 4 API No. 30-025-27586 1650' FSL & 990' FWL, Unit L Section 20, T-18S, R-36E

Drilled:

10/1981

Plugged:

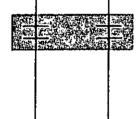
10/2009

11" Hole; Set 8 5/8" 24# csg. @ 1901'

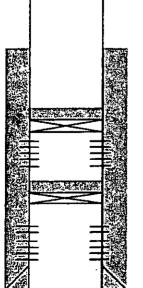
Cemented w/700 sx.

Cement circulated to surface

Perforate 4 ½" csg. @ 1,951' & cement w/40 sx. from 1,755'-1,951 (Tagged)



Perforate 4 1/2" csg @ 3,186 & cement w/40 sx. from 2,987'-3,186' (Tagged)



T.D. 5,600'

TOC @ 5,100' (Calc.)

Set CIBP @ 5,234' w/cement 5,200'-5,234'

San Andres Perforations: 5,286'-5,389'

Set CIBP @ 5,462' w/cement 5,450'-5,462'

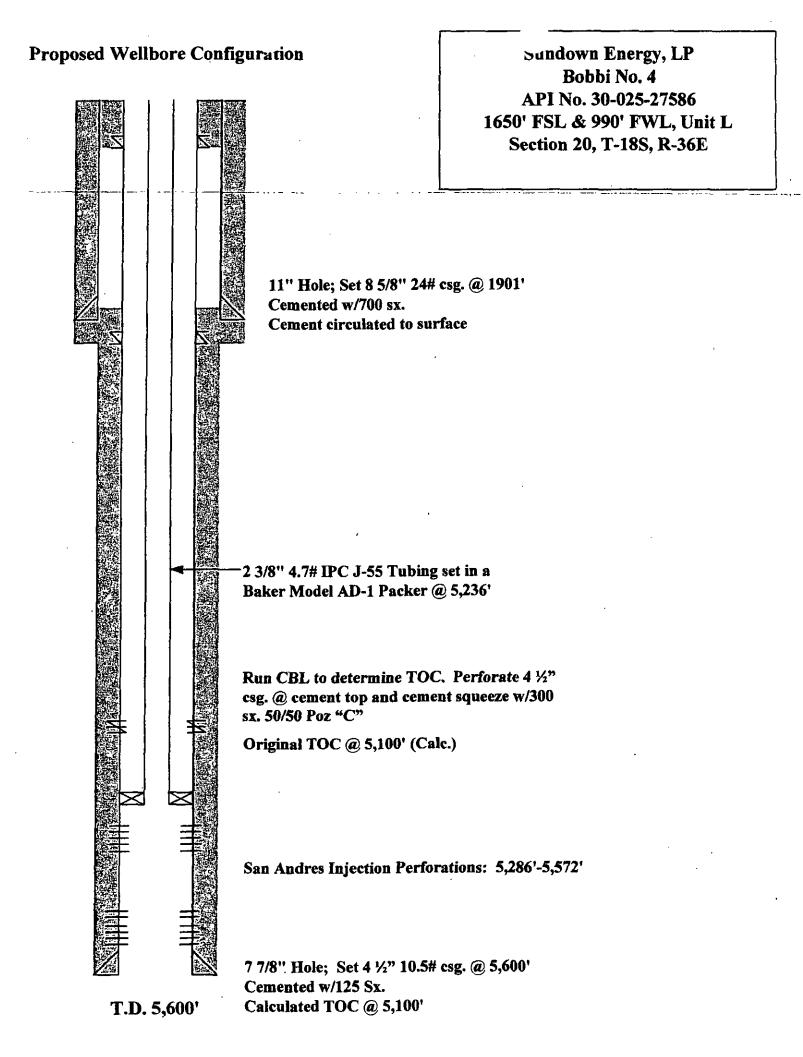
San Andres Perforations: 5,504'-5,572'

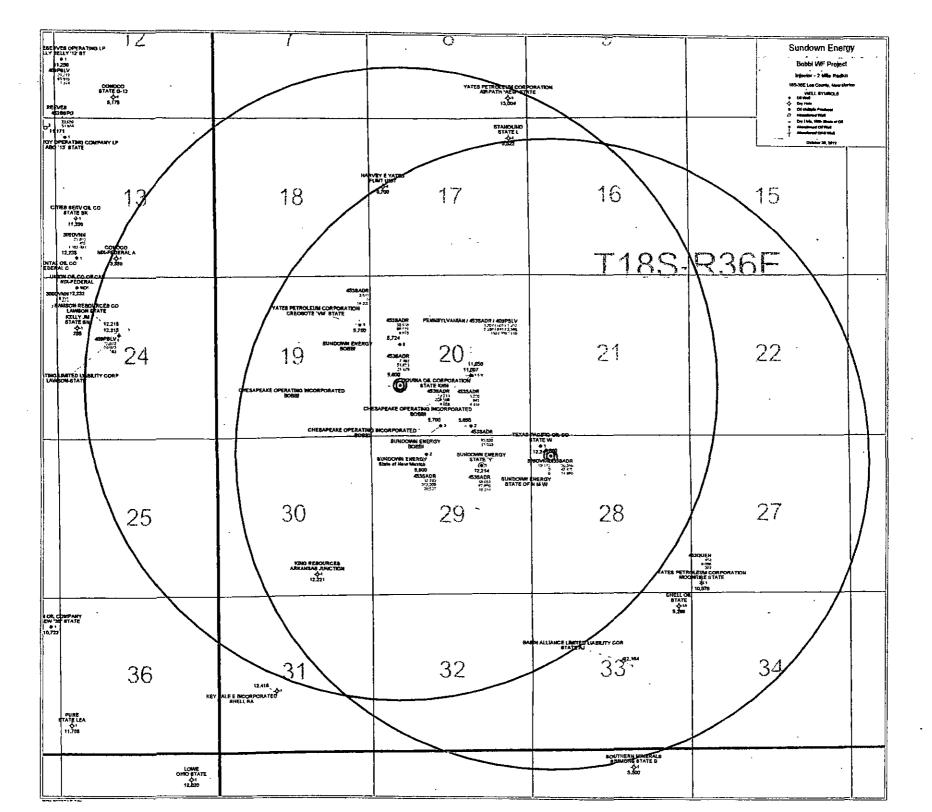
7 7/8" Hole; Set 4 1/2" 10.5# csg. @ 5,600'

Cemented w/125 Sx.

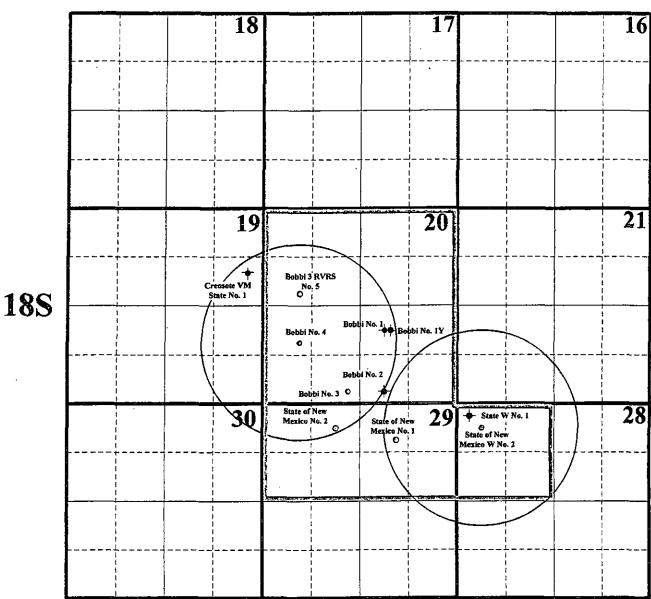
Calculated TOC @ 5,100'

Submit 3 Copies To Appropriate District Office State of New Mexico	Form C-103
District 1 Energy, Minerals and Natural Resources	June 19, 2008
1625 N. French Dr., Hobbs, NM 88240 District 11	WELL API NO. 30-025-27586
1301 W. Grand Ave., Artesia, M. C. CONSERVATION DIVISION	5. Indicate Type of Lease
District III 1220 South St. Francis Dr. 1200 Rio Brazos Rd., Aziec, NM 87414 1 3 2009 Santa Fe. NM 87505	STATE X FEE
	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fr. DBBSOCD 87505	
SUNDRY NOTICES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT-RESERVOIR—USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH	Bobbi
PROPOSALS.)	8. Well Number 4
1. Type of Well: Oil Well Gas Well Other 2. Name of Operator	9. OGRID Number
Chesapeake Operating, inc.	9. OORID Number 147179
3. Address of Operator P.O. Box 18496 Oklahoma City, OK 73154-0496	10. Pool name or Wildcat Arkansas Junction; San Andres, West
4. Well Location	
Unit Letter L: 1650' feet from the South line and	
Section 20 Township 18S Range 36E	NMPM County Lea
11. Elevation (Show whether DR, RKB, RT, GR, 3838' GR	ac.)
12. Check Appropriate Box to Indicate Nature of Notice	e, Report or Other Data
NOTICE OF INTENTION TO:	JBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐ REMEDIAL W	
TEMPORARILY ABANDON CHANGE PLANS COMMENCE	DRILLING OPNS. P AND A
PULL OR ALTER CASING MULTIPLE COMPL CASING/CEM	ENT JOB 🔲
DOWNHOLE COMMINGLE	
OTHER: OTHER:	· · · · ·
. 13. Describe proposed or completed operations. (Clearly state all pertinent details,	and give pertinent dates, including estimated date
	and give pertinent dates, including estimated date Attach wellbore diagram of proposed completion
13. Describe proposed or completed operations. (Clearly state all pertinent details, of starting any proposed work). SEE RULE 1103. For Multiple Completions: or recompletion. Please find the following work performed in the plug and abandonment of this well to the completion.	Attach wellbore diagram of proposed completion
 13. Describe proposed or completed operations. (Clearly state all pertinent details, of starting any proposed work). SEE RULE 1103. For Multiple Completions: or recompletion. Please find the following work performed in the plug and abandonment of this well following. 	Attach wellbore diagram of proposed completion from 9/30/09 through 10/01/2009.
13. Describe proposed or completed operations. (Clearly state all pertinent details, of starting any proposed work). SEE RULE 1103. For Multiple Completions: or recompletion. Please find the following work performed in the plug and abandonment of this well to the completion.	Attach wellbore diagram of proposed completion from 9/30/09 through 10/01/2009. Ole w/brine & mud. POOH w/tbg_perf 4 1/2" csg
 Describe proposed or completed operations. (Clearly state all pertinent details, of starting any proposed work). SEE RULE 1103. For Multiple Completions: or recompletion. Please find the following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well followed in the plug and abandonment of this well followed in the plug and abandonment of this well followed in the p	Attach wellbore diagram of proposed completion from 9/30/09 through 10/01/2009. The wide wide POOH with the perf 4 1/2" csg at in press @ 1600 psi.
 13. Describe proposed or completed operations. (Clearly state all pertinent details, of starting any proposed work). SEE RULE 1103. For Multiple Completions: or recompletion. Please find the following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of	Attach wellbore diagram of proposed completion from 9/30/09 through 10/01/2009. The with the wide of
13. Describe proposed or completed operations. (Clearly state all pertinent details, of starting any proposed work). SEE RULE 1103. For Multiple Completions: or recompletion. Please find the following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well follow	Attach wellbore diagram of proposed completion from 9/30/09 through 10/01/2009. The wide wide and POOH with perf 4 1/2" csg at in press @ 1600 psi. The same of proposed completion of the proposed completion o
13. Describe proposed or completed operations. (Clearly state all pertinent details, of starting any proposed work). SEE RULE 1103. For Multiple Completions: or recompletion. Please find the following work performed in the plug and abandonment of this well f 9/30/09 MIRU PU & SE. NDWH & NUBOP. PU & RIH w/tbg. Tag PBTD @ 5200'. Circ he at 3186'. RIH & set pkr at 2692'. Mix & pump 40 sxs class C cmt at 3186'-3086'. Sh 10/01/09 RIH & tag cmt plug at 2987'. POOH/RIH & perf 4 1/2" csg at 1951', Mix & pump 4 & tag 1755'. POOH. Perf csg at 400' Mix & pump 110 sxs cmt to surface. NDBOP. clean up. Approved fo Liability und	Attach wellbore diagram of proposed completion from 9/30/09 through 10/01/2009. Ole w/brine & mud. POOH w/tbg perf 4 1/2" csg ut in press @ 1600 psi. Ole sxs Class C cmt from 1951'-1851'. WOC. RIH RDPU. Turn well over to production for final plugging of well bore only. The bond is retained pending receipt
13. Describe proposed or completed operations. (Clearly state all pertinent details, of starting any proposed work). SEE RULE 1103. For Multiple Completions: or recompletion. Please find the following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well following work performed in the plug and abandonment of this well follow	Attach wellbore diagram of proposed completion from 9/30/09 through 10/01/2009. All with the wind through 10/01/2009. All with the wind through 10/01/2009. All with the wind through 10/01/2009. All with through 1
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Proposed Waterflood Project Area

Proposed Injection Well

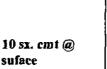
Producing Well

PA'd Well

Sundown Energy, LP
Proposed Bobbi State Unit Waterflood
1/2 Mile AOR Map

SUNDOWN ENERGY, LP FORM C-108: AREA OF REVIEW WELL DATA BOBBI STATE UNIT WATERFLOOD PROJECT

API NUMBER	OPERATOR	MANE I	100	3 1	STATUS SPACES	N/S	学	Y 0.	多級	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	10 B	海	DATE	DEPTH	HOU!	SCE	7.	3 7	TOP	and. 公兴	HOLE	650. 807	· SATA	BX.,	ME TOP 题	A MITA	COMPLE	TON S	Messana
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30-025-26796	Chesapeake Operating	Bobbi	2	P	PA	330	8 11	980' 1	E O	20	165	36E	May-80	5,650	12 1/4"	0.5/6"	1,881	923	Surface	Circ.	7 7/8	4 1/2	5,850	700	3,181	1,5,	5,476-5	35 Perf.	PA'd 5/08. Schematic Attached
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30-025-26954	Sundown Energy, LP	Bobbi	3	P	TA	330	8 2	310 V	N N	20	188	36E	<u>}01 60</u>	5,700	12 1/4"	8 5/8"	1,890	839	Surface	Circ.	7 7/6"	4 1/2"	5,700	340	4,652	CBL	5,485-5	554' Perf.	TA'd 4/09 w/CIBP @ 5,450' w/3 sx. cm
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30-025-27641	Sundown Energy, LP	Bobbi 3 RVRS	5	L P	Acilya	2310	N S	X60, 1	W E	20	185	36E	Nov-81	5,724	12 1/4"	8 5/8"	1,896	700	Surface	Circ.	7 7/6	4 1/2	5,713	175	5,100	Celc.	5,295-5,	307 Perf.	13.0
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30-025-03977	V. H. Westbrock	State W		Р.	PA	1 330	N 3	30 V	<u>~ U</u>	1 25	169	30E	Jan-58	12,245	1/	13 3/0	312	300	BUTTINGE	Carg.		9 5/8° 5 1/2°		1288 525	415	T.S.	12,140-1	100 Per	Schematic Attached
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30-025-03978	Sundown Energy, LP	Clate of New Marries	 	P	Active	1000	N 6	- P	E B	1 50	188	205	hd.68	12,214	17"	12 3/8*	910	150	Surface	Cim.	13*	0.50	4.750	2006	Surface	Circ.	5 400'-5	EDO CAN	PBTD: 5,555°
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30-025-27032	Sundown Energy, LP	State of New Mexico	2	P	Active	660	N 1	980' V	w c	29	183	36E	Sep-80	5,600	12 1/4"	6 5/8"	1,896	850	Surface	Circ.	7 7/8"	4 1/2"	5,600	225	4,500	Well File	5,152-5	516' Perf.	1
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30-025-28071	Yates Petroleum Corp.	Creceote VM State	1	P	PA	1650	N S	330"	E H	19	185	38E	Feb-83	5,700	12 1/41	8 5/8*	1,522	1000	Surface	Circ	7 7/6	5 1/2"	5,692	485	3,213	Calc	5,312-5	547 Perf.	PA'd 7/93, Schematic Attached



Rex Alcorn
Bobbi No. 1
API No. 30-025-25065
1980' FSL & 1980' FEL (Unit J)
Section 20, T-18 South, R-36 East, NMPM

suface 75' cmt. plug

@ 333'

17 ½" Hole; Set 12 ¾" Csg @ 333' Cemented w/400 Sx. TOC @ surface by calc. Drilled: 8/75
Plugged: 5/76
Re-Entered &
Re-Plugged: 6/79

Cut 8 5/8" csg. & pulled @ 1,159'. Spot 75' cmt. plug @ 1,174 after unsuccessful re-entry.

TOC @ 2,900' (Well File)

Cut 5 1/2" csg & pulled @ 4,741'. Spot 70 sx. cement stub plug @ 4,741'

TOC @ 4,750' (Estimted)

11" Hole; Set 8 ½" Csg @ 5,010' Cemented w/700 sx. TOC @ 2,900' (Well File)

Set CIBP @ 5,420 w/30 sx. cement on top

San Andres perforations: 5,552'-5,583'

7 7/8" Hole; Set 5 ½" Csg. @ 5,694' Cemented w/200 Sx. TOC @ 4,750' (Estimated)

Set 35 sx. cmt. plug 5,800'-5,900'

Set 35 sx. cmt. plug 6,600'-6,700'

Set 35 sx. cmt. plug 8,600'-8,700'

Set 35 sx. cmt. plug 10,400'-10,500'

Set 35 sx. cmt. plug 10,800'-10,900'

7 7/8" hole drilled to 12,266'

T.D. 12,266

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

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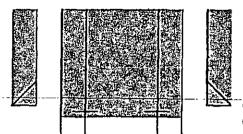
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DT#14								_		
17. Describe Proposed work) SEE RULE		rations (Clea	ly state all pert	inent deta	ils, and give	pertinent dates,	including	estimated date o	starting any	proposed
•	(Re-entry	attempt	of former	Coquir	na Oil Co	rp. 110. 1	State	"KRH")		
	daily pro-	gress rep	week attemort, effor	rts pro	enter 8 oved unsu	5/8" casin ccussful.	ng as p Hole	per attache wsas Junke	ed e d	
June 2, '79"	75 foot p	lug @ 117 lug @ 333	74' (8 5/8' 3' (12 3/4	'stub)) face casi	ng)	,			
•	Operator v	vill skid	50 feet e	east an	d start	new hole i	from su	irface.		
										·

18, I hereby certify that	the information above to true and comple	te to the best of my knowledge and belief.	
· Harto Orley	Olean	Operator Operator	oare June 12, 1979
	Orig. Signed 53 Jerry Sexton		IIIN 22 19 79
APPROVED BY	Dist 1, Supv.	11112	DATE ILITA IOIO

NO. OF COPIES RECEIVED		Form C-103
DISTRIBUTION		Supersedes Old
ANTA FE	NEW MEXICO OIL CONSERVATION COMMISSION	C-102 and C-103 Ellective 1-1-65
FILE		•
U.S.G.S.		Sa. Indicate Type of Lease
LAND OFFICE		State X Fee
SPERATOR		5. State Oil & Gas Lease No.
	•	1-2948
SUNDRY NOTIC	CES AND REPORTS ON WELLS	THIRTHINITH THE
(DO NOT USE THIS FORM FOR PROPOSALS TO USE "APPLICATION FOR PER	ORIL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.	
	·	7. Unit Agreement Name
WELL X SAB OTHER.		
Name of Operator	· · · · · · · · · · · · · · · · · · ·	8. Farm or Lease Name
COOUINA OIL CORPORATION		State KNN
, Address of Operator		9, Well No.
P. O. Drawer 2960, Midland,	Tevas 70701	1,1
Location of Well		10. Field and Pool, or Wildeat
UNIT LETTER	FEET FROM THE SOUTH LINE AND 1980 FEE	West Arkansas Junction (S.
UNIT CELLEN	PELI FROM THE	THINITH THE PARTY OF THE PARTY
Fact 2	0томиянтр18-Sяанда36-Е	
THE LINE, BECTION	TOWESHIP RANGE	
	15. Elevation (Show whether DF, RT, GR, etc.)	12. County
	38294	lea (IIIIIIIII
6, Chark Approprie	ate Box To Indicate Nature of Notice, Report	
	-	
NOTICE OF INTENTIO	1 10: 2082EQ	DUENT REPORT OF:
	[7]	J
ERFORM REMEDIAL WORK	PLUG AND ABANDON REMEDIAL WORK	ALTERING CABING
EMPORABILY ABANDON	COMMENCE DRILLING DPNS.	PLUG AND ABANDONMENT (A)
ULL OR ALTER CASING	CHANGE PLANS CASING TEST AND CEMENT JOB	J
	OTHER	
- NAMES	— ——— ————————————————————————————————	
7. Describe Proposed or Completed Operations (C	learly state all pertinent details, and give pertinent dates, inc	cluding extimated date of starting any proposed
work) SEE RULE 1103.	• •	, , , , , , , , , , , , , , , , , , , ,
PLUGGED AND	ABANDONED AS FOLLOWS:	•
Dullad A 741 621 of E	1/20 assiss and 1150 041 of 9 5/90 cm	ocina
Pulled 4,/41.02 01 5	1/2" casing and 1159.04' of 8 5/8" ca	ising.
1. Set CIBP at 5420' with	20 cooks on ton	
1. Set CIBP at 5420' with	so sacks on cop.	
2 Snotted 70 sacks roa in	n and out of 5 1/2" stub at 4741'.	
2. Spotted 70 sacks reg. i	and but of 5 1/2 Stub at 4/41.	
3. Spotted 75 sacks reg. in	n and out of 8 5/8" stub at 1159'.	
5. Spotted 75 sacks reg. II	and out of 6 3/6 Stab at 1135.	,
4. 75 sacks reg at 276'.		ı
4. /5 sacks reg at 2/0 .	•	
5. 10 sacks at surface.		
5. 10 Sacks at Surface.		•
Mud was placed beto	waan all nluge	
ridd was praced bett	reen ari piugs.	
Welded on dry hole	marken	
werded on dry note	Marker.	
May 26 1076 anamations con	malata	
May 26, 1976, operations con	iprete.	
. I hereby certify that the information above is tru	se and complete to the best of my knowledge and belief.	
	•	
Gued Man Bumb Alan Bum	Engineering Assistant	BATE May 27, 1976
GHER . I PRUMILITATION A TOTAL BUILL	this Engineering Assistant	DATE MAY 27, 1976
Long on the see	Name :	
TO PUT WITH LAND	TITLE	DATE
PROVED BY		

4). OF COHIES RECEIVED]		Form C • 103	
DISTRIBUTION]		Supersedes Old	
SANTA FE	NEW MEXICO OIL	CONSERVATION COMMISSION	C-102 and C-103 Effective 1-1-65	
FILE]			
U.S.G.S.	<u> </u>		5s. Indicate Type of Lease	
_AND OFFICE	}		State X Fee	ني
SPERATOR	}		5. State Oil & Gas Lease No.	
SUNDR	RY NOTICES AND REPORTS	S ON WELLS PLUG BACK TO A DIFFERENT RESERVOI OR SUCH PROPERALS.)		
WELL X SAB WELL	OTHER-		7. Unit Agreemen: Name	
, Name of Operator			8, Farm or Lease Name	
Coquina Oil Corp	oration		State KNN	
P. O. Drawer 296	O. Midland. Texas 797	101	1	
4. Location of Well			to. Field and Pool, or Wildow	
UNIT LETIEN	1980 FEET FREM THE SOU	th 1980	Arkansas Junction	Dev.
East Line, section	on20	18S 8ANGE 36E		
· · · · · · · · · · · · · · · · · · ·	***************************************			777
	15. Elevation (Show wh 3829 GL	ether DF, RT, GR, etc.)	12. County Lea	
Check	Appropriate Box To Indica	te Nature of Notice, Repo		.111
	TENTION TO:		SEQUENT REPORT OF:	
PERFORM REMEDIAL WORK	PLUS AND ABANDON	REMED, AL WORK	ALTERING CABING	
HODRABILY ABANDON		COMMENCE DRILLING DANS.	PLUG AND ABANDONMENT	, آ
PULL OR ALTER CASING	CHANGE PLANS	CASING TEST AND CEMENT JO		
		OTHER Drilling	to Completion	_ (X)
OTHER				
n to 100		1		
work) SEE RULE 1103.	etations (Clearly State all partines	u actairs, and give pertuient dates,	, including estimated date of starting any pro-	posed
40# 8rd STC casir 1/4# Flocele. At with 500 sx class cement top at 290 WIH. Circ. 2 1/ Sept. 24, reach 10,970'. Dress can Andres comple 6% CFRZ, 5# sd/sx	ng in 17 1/2" hole; or ugust 19, ran 5010.91 is C with 1/4# Flocele 00'. Sept. 22 lost of 44 hrs. Lost comp. row. I.D. at 12,266'. Sept. off plug to 10,970'. etion. Sept. 27, set of Sept. 30, PBTD to	mt. casing with 400 s ' of 8 5/8" 32# J-55 , plus 200 sx class 0 irc. At 12,245' pull et. Pulled 15 std. t. 26, prep to set pl Check press. drop. cement plug @ 10,206	4, ran 333.18' of 12 3/4" sx class C, 2% CaCl ₂ and STC casing and cemented C with 2% CaCl ₂ + V4 Floceled 20 std. Mix 75 bbls. Pump 300 bblsno return. Jug to PBTD & DST 10,878'-Decide not to attempt 5', cmt. w/ 150 sx class H. s follows:	e,
10,400'	-10,900' 35 SX -10,500' 35 SX -8,700' 35 SX -6,700' 35 SX -5,900' 35 SX	•		
Oct. 1, ran 5 1/2	" 15.5# K-55 8rd cas	ing. Landed @ 5,694'	. Cct. 2-6, WO Completion.	
18. I hereby certify that the information	above is true and complete to the t	pest of my knowledge and belief.		
				•
519NED	TITLE_	Eng. Asst.	DATE 10-7-75	
				
$\mathfrak{O}_{\mathbb{Q}_2}$	· Son a second			ί.
SONDITIONS OF APPROVAL, IF ANY	South Aller	,	DATE IT SE	
JANULLIUND OF APPROVAL, IT ANTS	is Insp.			

Ch peake Operating, Inc.
Bobbi No. 1Y
API No. 30-025-26356
1980' FSL & 1930' FEL (Unit J)
Section 20, T-18 South, R-36 East, NMPM



17" Hole; Set 13 3/8" csg @ 330'

Cemented w/325 Sx.

Cement circulated to surface

Drilled: 1179 Plugged: 8/09

Perforate 5 ½" csg. @ 380' & squeezed w/100 sx. cmt. Cement circulated to surface.

TOC @ 1,000' by T.S.

Perforate 5 1/2" csg. @ 2,006' & squeezed w/30 sx. cmt. Tagged @ 1,800'

Perforate 5 1/2' csg. @ 3,280 & squeezed w/ 30 sx. cmt. Tagged @ 3,050'

11" Hole; Set 8 5/8" csg @ 3,800' Cemented w/1100 sx. TOC @ 1,000' by T.S.

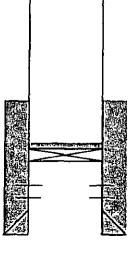
Perforated 5 1/2" csg. @ 3,850' & squeezed w/30 sx. cmt. Tagged @ 3,695'

TOC @ 4,484' by CBL

Set CIBP @ 5,400' w/cement 5,146'-5,400'

San Andres Perforations: 5,474'-5,480'

Perforate 5 ½" csg. @ 5,700'. Ran cmt. retainer & set @ 5,635'. Squeezed w/300 sx. TOC @ 4,484' by CBL. Cmt. plug & retainer in csg. 5,620'-5,700'



TOC @ 10,200' by T.S.

Set CIBP @ 10,700' w/35' of cement on top

Penn perforations: 10,863'-10,933'

7 7/8" Hole. Set 5 ½" csg. @ 11,050' Cemented w/185 sx.
TOC @ 10,200' by T.S.

T.D. 11,050'

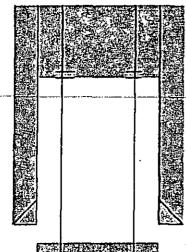
Office	State of New Mexico Energy, Minerals and Natural Resources	Form C-103
District	WELL API NO.	
1625 N. French Dr., Hobbs, NM 8824	OIL CONSERVATION DIVISION	30-025-26356
1301 W. Grand Ave., Artesia, NM 88210 District III	5. Indicate Type of Lease	
1000 Rio Brazos Rd., Aziec, NM 87410	25 200920 South St. Francis Dr.	STATE X FEE
1000 Rio Brazos Rd., Aziec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	SOCD Salita Fe, 14141 87303	6. State Oil & Gas Lease No.
	AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSALS -DIFFERENT-RESER VOIRUSE-"APPLICATION PROPOSALS.)	TO DRILL OR TO DEEPEN OR PLUG BACK TO A ON FOR PERMIT (FORM C 101) FOR SUCH	Bobbi
1. Type of Well: Oil Well X Gas	Well Other	8. Well Number . 1Y
2. Name of Operator Chesapeake Oper		9. OGRID Number 147179
3. Address of Operator P.O. Box 18496 Oklahoma City,	OK 73154-0496	10. Pool name or Wildcat Arkansas Junction; San Andres, West
4. Well Location		
Unit Letter J : 1980		
Section 20	Township 18S Range 36E	NMPM County Lea
12. / 21Cr - 3/7/91 (2004) TO A STATE OF THE	Elevation (Show whether DR, RKB, RT, GR, etc. 832' GR	
12. Check Appr	opriate Box to Indicate Nature of Notice,	Report or Other Data
NOTICE OF INTER	NTION TO: SUB	SEQUENT REPORT OF:
	UG AND ABANDON REMEDIAL WOR	
	ANGE PLANS COMMENCE DR	
_	ILTIPLE COMPL CASING/CEMEN	T JOB 📙
DOWNHOLE COMMINGLE		
	OTUED.	
OTHER:	OTHER:	
13. Describe proposed or completed	operations. (Clearly state all pertinent details, an	d give pertinent dates, including estimated date
13. Describe proposed or completed		d give pertinent dates, including estimated date tach wellbore diagram of proposed completion
 Describe proposed or completed of starting any proposed work). or recompletion. Please find the following work perform 	operations. (Clearly state all pertinent details, an SEE RULE 1103. For Multiple Completions: At med in the plug and abandonment of this well from	tach wellbore diagram of proposed completion 1 8/13/09 through 8/19/2009.
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13. Describe proposed or completed of starting any proposed work). or recompletion. Please find the following work perform MIRU PU & SE. NDWH & NUBOP. retainer. POOH w/WL. RIH w/ 5 1/2' mud. Spot 25 sxs class "C" cmt from 5 w/ AD1-pkr & 55 jts of 2 3/8" tbg. Set Unseat pkr & POOH. RIH w/open end	operations. (Clearly state all pertinent details, an SEE RULE 1103. For Multiple Completions: At med in the plug and abandonment of this well from POOH w/178 jts of 2 7/8"tbg. RU WL & RIH w/ bridge plug & set @ 5400'. POOH w/WL. RIH w/1400' to 5146', Est top/cmt. Stood back tbg. RIH w/1400' to 5146', Est top/cmt.	tach wellbore diagram of proposed completion 1 8/13/09 through 8/19/2009. gauge ring to 5620' & tagged top of cement 1 173 of 2 3/8" jts tbg. Circ hole w/plugging 1 2 3/8" jts tbg. Circ hole w/plugging 1 3 3 50'. POOH w/WL. RIH 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
13. Describe proposed or completed of starting any proposed work). or recompletion. Please find the following work perform MIRU PU & SE. NDWH & NUBOP. retainer. POOH w/WL. RIH w/ 5 1/2' mud. Spot 25 sxs class "C" cmt from 5 w/ AD1-pkr & 55 jts of 2 3/8" tbg. Set Unseat pkr & POOH. RIH w/open end w/AD1 pkr & 46 stds. Set at 2871'. Ci	operations. (Clearly state all pertinent details, an SEE RULE 1103. For Multiple Completions: At med in the plug and abandonment of this well from POOH w/178 jts of 2 7/8"tbg. RU WL & RIH w/ bridge plug & set @ 5400'. POOH w/WL. RIH w/1400' to 5146', Est top/cmt. Stood back tbg. RIH w/1400' to 5146', Est top/cmt. Stood back tbg. RIH w/1400' to 5146', Est top/cmt. Stood back tbg. RIH w/1400' to 5146', Est top/cmt. Stood back tbg. RIH w/1400' to 5146', Est top/cmt. Stood back tbg. RIH w/1400' to 5146', Est top/cmt. Stood back tbg. RIH w/1400' to 5146', Est top/cmt. Stood back tbg. RIH w/1400' to 5146', Est top/cmt. Stood back tbg. RIH w/1400' to 5146', Est top/cmt. Stood back tbg. RIH w/1400' to 5146'. Sqzd 30 sxs class "C" cmt. W/1400' to 5146'.	tach wellbore diagram of proposed completion 1 8/13/09 through 8/19/2009. gauge ring to 5620' & tagged top of cement 1 173 of 2 3/8" jts tbg. Circ hole w/plugging 1 2 3/8" jts tbg. Circ hole w/plugging 1 3 3 50'. POOH w/WL. RIH 2 2 3 2 80', POOH w/WL. RIH 2 3 2 80', POOH w/WL. RIH 3 2 5 80', POOH w/WL. RIH 3 2 6 90 90 90 90 90 90 90 90 90 90 90 90 90
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Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: Subsequent Report of Other Data NOTICE OF INTENTION TO: ***Located Proposed of Completed Springing (Clearly state all periment density, and give periment date; including estimated date of stanting any proposed with state and set at 12.2" cast iron bridge plug at 10,700' and spotted 35' cement on top plug. Perf 4 shots at 5700', ran cement retainer and set at 5353'. Squeezed with 300 sacks Class C with 3# KCL, 3% Halad-4 and 4% CER 2. Pulled off retainer and spotted 150 gals 15% MCA acid. Ran GR with collar locater and bond log. Good bond with top cement at 4484'. Perf 2 shots per foot at 5474, 76, 78 & 80. Ran RITS tool on tob, tagged bottom at 5623' from KB. Set RITS at 5357', displaced hole with 2% KCL wtr, acidized with 2000 gals 15% MCA acid and 12 ball sealers. Swabbed dry with show gas and oil. Halliburton fraced down 2 7/8" tog, with 19,000 gals piquid CO2 plus flush and 18,000 bs 20/40 sand and 22,500 bs 10/20 sand. Av trtg pressure 5050#, av inj rate 13 BPM, ISIP 2550#, 2190 in 5 miss. Flowed back portion of load. Swabbed dry with show oil and gas. Fulled tog and RITS. Ran 179 jts 2 7/8" tog with seating nipple and tog anchor. Seating nipple at 5520' from KB, bottom tagged at 5623'. Ran rods and pump and put on pump. From 12-24-80 to 2-5-81 produced average 3 BOPD plus 30-40% load water. On Feb. 5, 1981, pulled rods and pump, changed out pumping unit from size 640 to Lufkin 114, Pulled tog, ran tracer survey which indicated treatments entered pay zone. Ran 178 jts 2 7/8" tog with seating nipple and anchor, bull plug on bottom jt used for mud anchor. SN @ 5489' from KB, Ran 2 x 1 1/2 x 16 pump, 159 jts 3/4" & 58 jts 7/8" rods w/2' sub above pump. POP: work completed 2-9-81. Delay to the following to the base of the seating nipple and anchor, bull plug on bottom jt used for mud anchor. Sh @ 5489' from KB, Ran 2 x 1 1/2 x 16 pump, 159 jts 3/4" & 58 jts 7/8" rods w/2' sub above pump. POP: work completed 2-9-)
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Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: ***CLAND ARABON** ***CLAND	Till Till Till Till Till Till Till Till	12. County
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Orth Stands De MAR 6 1981	Pulled rods, pump, tubing and anchor. Ran and set 5 1/2" cast iron by and spotted 35' cement on top plug. Perf 4 shots at 5700', ran cement at 5635'. Squeezed with 300 sacks Class C with 3# KCL, 3% Halad-4 at off retainer and spotted 150 gals 15% MCA acid. Ran GR with collar log. Good bond with top cement at 4484'. Perf 2 shots per foot at the Ran RTTS tool on tbg, tagged bottom at 5623' from KB. Set RTTS at 50 with 2% KCL wtr, acidized with 2000 gals 15% MCA acid and 12 ball see with show gas and oil. Halliburton fraced down 2 7/8" tbg. with 10,000 wtr plus 10,000 gals liquid CO2 plus flush and 18,000 lbs 20/40 sand sand. Av trtg pressure 5050#, av inj rate 13 BPM, ISIP 2550#, 2190 in portion of load. Swabbed dry with show oil and gas. Pulled tbg and R1 2 7/8" tbg with seating nipple and tbg anchor. Seating nipple at 552 tagged at 5623'. Ran rods and pump and put on pump. From 12-24-80 to average 3 BOPD plus 30-40% load water. On Feb. 5, 1981, pulled rods out pumping unit from size 640 to Lufkin 114. Pulled tbg, ran tracer treatments entered pay zone. Ran 178 jts 2 7/8" tbg with seating nipple on bottom jt used for mud anchor. SN @ 5489' from KB. Ran 2 x 1 3/4" & 58 jts 7/8" rods w/2' sub above pump. POP: work completed 2-9	ridge plug at 10,700° int retainer and set and 4% CER 2. Pulled locater and bond 5474, 76, 78 & 80. 357', displaced hole alers. Swabbed dry 200 gals gelled 2% KCL and 22,500 lbs 10/20 in 15 mins. Flowed back TTS. Ran 179 jts 20' from KB, bottom to 2-5-81 produced and pump, changed survey which indicated to be and anchor, bull 1/2 x 16 pump. 159 its
Orth Stands Dr. MAR 6 1981	~ 100	
Title WAN Comments	They (Mearl Operator	3-4-81
CONDITIONS OF APPROXIMENT ANY	Orto Stones	MAR 6 1981
	CONDITIONS OF APPROBLES IF ANY	2 × 22 \

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Chesapeake Operating, Inc.
Bobbi No. 2
API No. 30-025-26796
330' FSL & 1980' FEL, Unit O
Section 20, T-18S, R-36E

Perforate 4 ½" csg. @ 450'. Pumped 135 sx. cmt. down 4 ½" csg. to surface out of 8 5/8" csg. Leave csg. full.

Drilled:

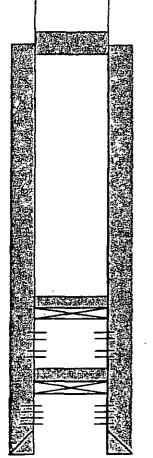
5/1980

PA'd:

5/2008

12 ¼" Hole; Set 8 5/8" csg. @ 1881' Cemented w/839 sx. Cement circulated to surface

Perforate 4 ½" csg. @ 1,931'. Set packer @ 1,512' & squeeze w/40 sx. cmt.



TOC @ 3,161' by T.S. Set 25 sx. cmt. plug @ 3,204'

CIBP @ 5,376' w/25 sx. cement on top

San Andres perforations: 5,476'-5,486'

CIBP @ 5,510' w/10' cement on top

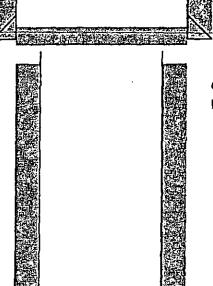
San Andres perforations: 5,523'-5,535'

7 7/8" Hole; Set 4 ½" csg. @ 5,650' Cemented w/700 Sx. TOC @ 3,161' by T.S.

T.D. 5,650'

Submit 3 Copies To Appropriate District	State of New Mo		Form C-10	
District I	Energy, Minerals and Natu	rai Kesources	May 27, 200	4
1625 N. French Dr., Hobbs, NM 87240 District II	OIX GONGERALLETON	A DITTO ON	WELL API NO. 30-025-26796	1
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION		5. Indicate Type of Lease,	1
District III 1000 Rio Brazos Rd., Azzec, NM 87410	1220 South St. Fra Santa Fe, NM 8		STATE 🔀 FEE 🗆	ļ
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	•		6. State Oil & Gas Lease No.	1
		·		4
SUNDRY NOTIO (DO NOT USE THIS FORM FOR PROPO DIFFERENT RESERVOIR. USE "APPLIC PROPOSALS.)	CES AND REPOSED AND SALS TO DRILLS (S. D. S. C. L. C.	FOR SUCH	7. Lease Name or Unit Agreement Name:	
1. Type of Well: Oil Well X Gas Well	Other JUN 02	2008	8. Well Number	1
2. Name of Operator CHESAPEAKE OPERATING, INC.	HOBB	SOCD	9. OGRID Number]
3. Address of Operator			10. Pool name or Wildcat	1
2010 Ramkin Hwy., Midland.	TX 79701	 	Arkansas Junction: San Andres West	$\left\{ \right.$
	330 feet from the SO	7787 1: J	1980 feet from the EAST line	
Unit Letter	330 feet from the SO	IIII line and	1980 feet from the EAST line	1
Section 20		Range 36 E	NMPM LEA County NM	
	11. Elevation (Show whether 3,8	DR, RKB, RT, GR, et 32. GR	(c)	è
Pit or Below-grade Tank Application	or Closure	· · · · · · · · · · · · · · · · · · ·		1
Pit type _SIEEL Depth to Groundwater	Distance from nearest fresh	water well Di	stance from nearest surface water	
Pit Liner Thickness: mil	Below-Grade Tank: Volume.	bbls; Constructi	on Material	
	appropriate Box to Indicate	i -	- ·	
NOTICE OF INTE	·	•	SEQUENT REPORT OF:	
PERFORM REMEDIAL WORK	PLUG AND ABANDON 🔲 🗀	REMEDIAL WORK	ALTERING CASING [
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILL	ING OPNS. PLUG AND ABANDONMENT	X.
PULL OR ALTER CASING	MULTIPLE COMPLETION	CASING TEST AND CEMENT JOB		
OTHER:		OTHER:		
13. Describe proposed or completed	operations. (Clearly state all per	rtinent details, and giv	e pertinent dates, including estimated date	_
of starting any proposed work). or recompletion.	SEE RULE 1103. For Multiple	Completions: Attas	rovelles rates rate of breposed completion	
or recomposition.				
	•	JofC	-103 (Subsequent Report of Well Plussing)	
5-21-08 Set 4 1/2" C.I.B.	P. 65,376'.	of C whi	-103 (Subsequent Report of Well Plugging) th may be found at OCD Web Page under ps, www.cmird.state.nm.us/ocd.	
•	·	of C whi. For	-103 (Subsequent Report of Well Plugging) th may be found at OCD Web Page under ps, www.cmmd.state.nm.us/ocd.	
5-22-08 Circulate hole wi	·	e5,376'. Spot 25 :	-103 (Subsequent Report of Well Plugging) th may be found at OCD Web Page under ps, www.tmird.state.nm.us/ocd. Ext. cmt. 83,204'. Perf. 4 holes	
5-22-08 Circulate hole wi @1.931'. Set pkr.	ith mud. Spot 25 sx. cmt. (. 01,512 '. Sqz. 40 sx. cmt	%% For 05,376'. Spot 25: Perf. 4 holes 04	-103 (Subsequent Report of Well Plugging) th may be found at OCD Web Page under ps, www.cmmd.state.nm.us/ocd. sx. cmt. @3,204'. Perf. 4 holes 150'.	
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5-22-08 Circulate hole will set pkr. 5-23-08 Pump 135 sx. cmt. Dryhole Marker. I hereby certify that the information all grade tank has been/will be constructed or constructed or constructed.	ith mad. Spot 25 sx. cmt. 1. 61,512'. Sqz. 40 sx. cmt. 2. down 4 1/2" to surface of the losed according to MMOCD guidelines. TITLE-IN	e5,376'. Spot 25 s. Perf. 4 holes e4 ut of 8 5/8". Lear	-103 (Subsequent Report of Well Plugging) the may be found at OCD Web Page under ps, www.cmmd.state.nm.us/ocd. Ex. cmt. @3,204'. Perf. 4 holes 150'. The 4 1/2" full of coment. Install the and belief. I further certify that any pit or below- or an (attached) alternative OCD-approved plan	_
5-22-08 Circulate hole will el. 931'. Set pkr. 5-23-08 Pump 135 sx. cmt. Dryhole Marker. I hereby certify that the information all grade tank has been/will be constructed or constructed	ith mud. Spot 25 sx. cmt. 1. 61,512'. Sqz. 40 sx. cmt. 2. down 4 1/2" to surface of the losed according to NMOCD guideline. TITLE-INTERIOR OF THE COMPANY C	e5,376'. Spot 25 s Perf. 4 holes e4 ut of 8 5/8". Lear best of my knowledge a general permit E	-103 (Subsequent Report of Well Plugging) the may be found at OCD Web Page under ps, www.cmmd.state.nm.us/ocd. Ex. cmt. @3,204'. Perff. 4 holes 150'. The 4 1/2" full of coment. Install the and belief. I further certify that any pit or below- or an (attached) alternative OCD-approved plan SUEV. DATE 5-27-08 Telephone No. (432) 530-09	_ 07
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10' cmt plug @ surface State of New Mexico W No. 1
API No. 30-025-03977
330' FNL & 330' FWL (Unit D)
Section 28, T-18 South, R-36 East, NMPM



17" Hole; Set 13 3/8" csg @ 312' . . .

Cemented w/300 Sx.

Cement circulated to surface

Cut 9 5/8" csg. & pulled @ 380'. Set 100' cmt. plug 262'-362' after unsuccessful re-entry.

Drilled: 1/58-

Plugged: 4/62 Re-Entered &

Re-Plugged: 12/79

13" Hole; Set 9 5/8" csg @ 4,789' Cemented w/1266 sx. TOC @ 415' by T.S.

Set 25 sx. cmt. Plug 4,760'-4,820'



Set 25 sx. cmt. Plug 5,560'-5,600'

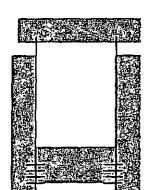


Set 25 sx. cmt. plug 7,800'-7,840'



Set 25 sx. cmt. plug 8,580'-8,620'

Cut & pulled 5 1/2" csg. @ 9,915'. Set 25



T D 12 2451

TOC @ 10,010 by T.S.

sx. cmt plug 9,879'-9,949'

Set 25 sx. cmt. plug 12,005'-12,180' Devonian perforations: 12,140'-12,186' 9 5/8" hole; Set 5 ½" csg. @ 12,245'

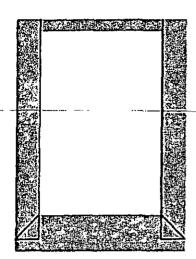
Cemented w/525 sx. TOC @ 10,010' by T.S.

NO. OF COPIES RECEIVED	_	Form C-103
DISTRIBUTION	4	Supersedes Old C-102 and C-103
SANTA FE	NEW MEXICO OIL CONSERVATION COMMISSION	Effective 1-1-65
FILE	- 	5a. Indicate Type of Lease
U.S.G.S.	4	State X Fee
OPERATOR .	-	5. State Oil & Gas Lease No.
J. 5.7.7. 5.7	T. C.	
SUND	RY NOTICES AND REPORTS ON WELL'S	THE STATE OF THE S
IDO NOT USE THIS FORM FOR PI	TOPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. TION FOR PERMIT -** (FORM C-101) FOR SUCH PROPOSALS.)	
I. OIL AS T	Do Entwy	7. Unit Agreement Name
weck were	OTHER. Re-Entry	L 4236
2. Name of Operator V H	. Westbrook	8. Form or Lease Name State of NM "W"
3. Address of Operator	- 112301301	9. Well No.
	Box 2264 Hobbs, New Mexico 88240	# 1
4, Location of Well		10. Field and Pool, or Midcat
D	330 FEET FROM THE North LINE AND 330 FEET FO	W. Arkansas S.A.
UNIT LETTER,	SOU FEET FROM THE NOT CIT LINE AND SOU FEET FI	
THE West LINE, BECT	10N 28 TOWNSHIP 18-S RANGE 36-E NM	$\langle $
	15. Elevation (Show whether DF, RT, GR, etc.) 3823 G.L.	12. County Lea
	Appropriate Box To Indicate Nature of Notice, Report or	Other Data
NOTICE OF	NTENTION TO: SUBSEQUE	ENT REPORT OF:
		۲۰۰۰
PERFORM REMEDIAL WORK	PLUG AND ABANDON REMEDIAL WORK	ALTERING CASING
PULL OR ALTER CASING	COMMENCE DAILLING OPPS. CHANGE PLANS CASING TEST AND CEMENT JOB	PLUG AND ABANDONMENT X
7.000 Om 20.100 Carolina	панто	
OTHER		<u> </u>
A Completed Comp	perations (Clearly state all pertinent details, and give pertinent dates, inclusion	
work) SEE RULE 1103.	persions to courty state are pertinent actuals, and give pertinent autes, enclass	ting estimated date of starting any proposed
40 44 70	•	•
12-11-79		
	' below 13-3/8" surface and 50' into 13-3/8" C	asing
100' plug from 3	62' to 302'	•
0 4 1 1 1 2 3 4 4 7 6	# 0-11-4 Duta-	
2. Loaded hole w/10	# Gelled Brine	
3 Set 10' nlum 0 s	urface in 13-3/8" surface w/4-1/2" Marker erec	ted.
5. Set 10 plug e 3	urrace in 10 0/0 Sarrace N, 1 1/2 Thanks, or 20	, 000
(Worked perfor	med as directed by OCC, Mr. Les Clements)	
·		·
·		
	•	e .
	·	
18. I hereby certify that the information	n shove is true and complete to the best of my knowledge and belief.	
11111111		٠
SIGNED // Helle	operator Operator	9/15/87
	OHLA GAS INSPECTO)R
Dat. 1	Will a company to the more	CED 1 0 1007
APPROVED BY	<u> </u>	SEP 1.8 1987

NEW WEXICO DIL CONSERVATION COMMISSION

FORM C-103 (Rev 3-55)

MISCELLANEOUS REPORTS ON WELLS (Submit to appropriate District Office as per Commission Rule 1106) Name of Company Texas Pacific Coal & Oil Co. & The Pure Oil Co O. Box 1688, Hobbs, New Mexico Unit Letter Range State of New Hextico "M" 1 28 D 18-3 36-E Date Votk Performed 3/18 - 4/6 - 1962 Pool County Arkansas Junction Devonian THIS IS A REPORT OF: (Check appropriate block) Beginning Drilling Operations Casing Test and Cement Job Other (Explain): Remedial Work A Plugging Detailed account of work done, nature and quantity of materials used, and results obtained. The following work was performed in plugging this well. 1. Loaded hole with 9 Lb./gal. salt water jel. 2. Spotted 25 sxs. coment plug from 12,005-12,180* over Devonian perforations. Cut and pulled 5-1/2" cag. from 9915". Placed cement plugs as fellows: 9879-99491 20 sxs. 5560-5600° 25 8238. 8580-86201 25 axs. 4760-48201 40 sxs. 7800-78401 25 BXB. 5. Cut and pulled 9-5/8" cag. from 380'. 6. Placed 85 sxs. coment plug from 290-4031. 7. Piaced 10 sx. coment plug and marker at surface. 8. Leveled pit and eleaned up location. 4410' 9-5/8" Ceg. and 311' of 13-3/8" csg. left in well. Position Witnessed by Соправу Rollins M. Roth Petroleum Engineer Texas Pacific Coal & Oil Company FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY ORIGINAL WELL DATA DF Elev. PBTD Producing Interval Completion Date Oil String Diameter ... **Tubing Diameter** Tubing Depth Oil String Depth Perforated Interval(s) Producing Formation(s) Open Hole Interval RESULTS OF WORKOVER Gas Production Water Production BPD Gas Vell Potential Oil Production GOR Date of Test BPD MCFPD Cubic feet/Bbl MCFPD Test Before **Workover** After Vorkover I hereby certify that the information given above is true and complete to the best of my knowledge. OIL CONSERVATION COMMISSION Name Approved by Title Petroloum Engineer Texas Pacific Coal & Oil Cospany



Spot 15 sx. cement plug @ surface

Yat. etroleum Corporation Creosote VM State No. 1 API No. 30-025-28071 1650' FNL & 330' FEL, Unit H Section 19, T-18S, R-36E

Drilled:

2/1983

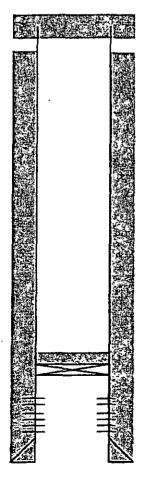
12 1/4" Hole; Set 8 5/8" 24# csg. @ 1822'

Plugged: 7/1993

Cemented w/1000 sx.

Cement circulated to surface

Spot 90 sx. cement shoe plug. Tagged plug @ 1,810'. Spot 25 sx. additional cement plug & tagged @ 1,729'



Cut & pulled 3,029' of 5 1/2" csg. Spot 40 sx. stub plug 2,965'-3,152' (Tagged)

TOC @ 3,213' by calc.

Set CIBP @ 5,250' w/cement 5,215'-5,250'

San Andres Perforations: 5,312'-5,547'

7 7/8" Hole; Set 5 ½" 15.5# csg. @ 5,692'

Cemented w/465 Sx.

T.D. 5,700' Calculated TOC @ 3,213'

Energy, M.

tate of New Mexico and Natural Resources Department

Form C-103 Revised 1-1-89

Santa Fe, New Mexico 87504-2088 Sindiat Type of Issue STATE FEE	OIL CONSERVATI O. Box 1980, Hobbs, NM 88240 P.O. Box 2		WELL API NO.
SUNDRY NOTICE OF INTENTION TO: PROPARRIY ABANDON CHANGE PLANS COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE COMMENCE DRILLING COMMENCE COMMENCE DRILLING COMMENCE	STRICT II Santa Fe. New Mexic		5. Indicate Type of Lease
SUNDRY NOTICES AND REPORTS ON WELLS DO NOT USE THIS FORM FOR PROPOSALS TO FULL OR TO DESPEND OR PLUG BACK TO A DIFFERENT RESERVOR. USE "APPLICATION FOR PERMIT" (FORM COUNTY FOR SUCH PROPOSALS.) Type of Well: "WILL	ISTRICT III 00 Rio Brazos Rd., Aziec, NM 87410		6. State Oil & Gas Lense No.
ONSER P & A Well Numer of Operator Numer of Operator Numer of Operator Numer of Operator Nations of Operator Nations of Operator Not Addiess of Operator Unit Letter H : 1650 Feet From This North Unit Letter H : 1650 Feet From This North North	DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEP DIFFERENT RESERVOIR. USE "APPLICATION FOR I	EN OR PLUG BACK TO A	
Address of Operator 105 South 4th St., Artesia, NM 88210 Well Location Ush Letter H : 1650 Feet From The North Line and 330 Feet From The East Line Society 19 Township 185 Range 36E NAMPM Lea County 10. Elevation (Slow whicher DF, REG. NT. GR. ac.) SASAT' CR L Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: REPORM REMEDIAL WORK PLUG AND ABANDON ALTERING CASING MPORARILY ABANDON CHANGE PLANS CASING TEST AND CEMENT JOS COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT ALORALTER CASING CASING TEST AND CEMENT JOS COTHER: Describe Proposed or Completed Operations (Clearly state all perferent details, and give perfected date, including estimated date of storing any proposed work) SEE RULE 1103. Moved in and rigged up pulling unit. POOH w/rods, pump, anchor and tubing. WIH w/5-1/2" CLED and set at 5250. POOH. Ran tubing in hole to top of plug. Loaded hole with mud. Spotted 35' of cement on top of CIBP. POOH w/tubing. Dug out cellar. Cut plate around casing. Stretch casing for free point. Showed to be free at 3100'. WIH w/casing cutter and cut casing at 329'. Pulled and laid down tubing to 2075'. Spotted 40 sacks of cement across 5-1/2" stub. Pulled 25 stands tubing. WOR RIH and tagged cement top at 2965'. Pulled and laid down tubing to 2075'. Spotted 90 sacks of cement across 8-5/8" shoot. WOC. RIH w/tubing and tagged cement at 1810'. Cement plug was too low. Re-spotted at 25 sack cement. plug. WOC. RIH and tagged plug at 1729'. Pulled and laid down tubing. Work HIH and tagged plug at 1729'. Pulled and laid down tubing. Spotted 90 sacks of cement marker. PLUGGED AND ABANDONED - FINAL REFORT. Plugging completed July 31, 1993. THE Production Clerk THE PROTECTION THE PROTECTION THE PROTECTION THE PR	WELL OTHER P &	A Well	Creosote VM State
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Unit Letter H : 1650 Feet From The North Line and 330 Feet From The East Line Section 19 Township 188 Range 36E NMFM Lea Country 10. Elevation (Show whicher DF, RGE, RT, GR, ac.) 3847' GR	105 South 4th St., Artesia, NM 88210		
In Elevation (Show whether DF, RKE, RT, GR, etc.) 3847' GR NOTICE OF INTENTION TO: REFORM REMEDIAL WORK PLUG AND ABANDON CHANGE PLANS COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT CASING COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT CASING COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT CASING TEST AND CEMENT JOB COMMENCE DRILLING OPNS. OTHER: CASING TEST AND CEMENT JOB COMMENT 	Line and 330	Feet From The East Line	
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APPROVED BY TIME DATE MAR 24 1935	TYPEOR FRINT NAME RUSTY Klein		<u>телетноке но. 505/748-1</u> 47
	0//10//10/		SPECTOR MAR 24 1995
		mle ———	DATE

Location of Water Well Analysis

T18S, R36E, Lea County, New Mexico

Cunningham Well # 2: located in Center of Section 21

Cunningham Well # 13: located in Center of Section 29

Cunningham Well # 14: located in Center of Section 20



Chemistry Resources Amarillo Testing Laboratory 7201 N Lakeside Rd, Amarillo TX, 79108



Login Batch 12080482 Collected by RICK-WILLIAMS

Login Date 🐭 08/30/2012 Logged in by GC

Report Date 12/17/2012 Project Mgr: Gale Henslee Copies to: Terry Dennis Scott Brake

Project Name **CUNNINGHAM ANNUAL WATER**

Labworks ID EH30411		ample Loca					Collection date	
Sample ID		hain of Cus	Collection time	13:40				
<u>Paremeter</u> Total Hardness	Results 160	Units	Qualifier	Detection Limit (MDL) 1	Reporting Limit (RL) 1	Analyst RM	Analysis date / time 10/9/12 10:34	Method 2340B
Calcium	51	ppm		2	2	RM	10/9/12 10:34	EPA 200.
Magnesium	8	ppm		2	2	RM	10/9/12 10:34	EPA 200.
Sodium	32	ppm		2	2	RM	10/9/12 10:34	EPA 200.
Potassium	<5	РРМ		2	2	RM	10/9/12 10:34	EPA 200.
M Alkalinity	178	ppmCaCO3	J	ō	ō	GC	9/25/12 11:00	2320B
P Alkalinity	0	ppmCaCO3	Ĵ	Ö	Ō	GC	9/25/12 11:00	2320B
Chloride	25	ppm	-	1	1	GC	8/30/12 13:50	EPA 300.
Nitrate	10	ppm		1	1	GC	8/30/12 13:50	EPA 300.
Sulfate	37	ppm		1	i	GC	8/30/12 13:50	EPA 300.
Nitrite	<1	ppm		1	i	GC	8/30/12 13:50	EPA 300.
Phosphate	<1	PPM		1	1	GC	8/30/12 13:50	EPA 200.
TDS by Evap	315	mg/L		10	10	RM	9/5/12 14:30	2540 C
TDS by Evap TDS by Analysis	NA.	IIIg/L			10	GC	12/17/12 10:23	2340 C
TDS by Allarysis TDS Evp/Anal Ratio	NA					GC	12/17/12 10:23	
pH	7.85		F			RW	8/29/12 11:00	4500-H+E
Temperature	19.7	degrees C	F			RW	8/29/12 11:00	4500-1178
Silica	36	PPM	Z.	1	1	RM		EDA 200
COD	36		4.	.5	.5		10/10/12 15:50	EPA 200.
30D		MG/L			.5 1	RM	9/5/12 16:30	Hach 800
	NR	mg/L		1		CC	12/14/12 14:43	5210-B
Cyanide (WAD)	NR NR	mg/L		0.05	0.05	CC	12/14/12 14:43	4500-CN-
Oil and Grease	NR	mg/L		5.0	5.0	CC	12/14/12 14:43	EPA 1664
Total Anions	262			80	80	GC	9/25/12 11:00	
Total Cations	233			70	70	RM	10/9/12 10:34	
Cation/Anion Balance	-5.9					RM	10/9/12 10:34	
Chromium	1.0	ppb		0.5	0.5	CC	10/19/12 09:31	EPA 200.
Zinc	4.7	ppb		0.5	0.5	CC	10/19/12 09:31	EPA 200.
Aluminum	15.2	ppb		0.5	0.5	CC	10/19/12 09:31	EPA 200.
Arsenic	6.2	ppb		0.5	0.5	CC	10/19/12 09:31	EPA 200.
Barium	97.3	ppb		0.5	0.5	CC	10/19/12 09:31	EPA 200.
Boron	0.073	ppm		0.0005	0.0005	CC	10/19/12 09:31	EPA 200.
Cadmium	<0.5	ppb		0.5	0.5	CC	10/19/12 09:31	EPA 200.
Copper	2.0	ppb	•	0.5	0.5	CC	10/19/12 09:31	EPA 200.
ron	84.1	ppb		0.5	0.5	CC	10/19/12 09:31	EPA 200.
.ead	<0.5	ppb		0.5	0.5	CC	10/19/12 09:31	EPA 200.
Manganese	0.7	ppb		0.5	0.5	CC	10/19/12 09:31	EPA 200.
Mercury	<0.2	ppb		0.5	0.5	CC	12/14/12 14:43	EPA 245.
Nickel	<0.5	ppb		0.5	0.5	CC	10/19/12 09:31	EPA 200.
Selenium	3.0	ppb		0.5	0.5	CC	10/19/12 09:31	EPA 200.
Silver	<0.5	ppb		0.5	0.5	CC	10/19/12 09:31	EPA 200.
	400			ΛE	ΛE	CC	40/40/40 00:04	EDA 200
Strontium /anadium	490 26.7	ppb		0.5	0.5 0.5	CC	10/19/12 09:31	EPA 200. EPA 200.



Labworks ID EH30415 Sample ID		Sample Loca Chain of Cus					Collection date Collection time	8/29/12 11:00
<u>Parameter</u> Total Hardness	Results 163	Units ppmCaCO3	Qualifier	Detection Limit (MDL)	Reporting Limit (RL) 1	Analyst RM	Analysis date / time 10/9/12 10:53	Method 2340B
Calcium	54			2	2	RM	10/9/12 10:53	
•	7	ppm		2	2			EPA 200
Magnesium Sodium		ppm		2		RM	10/9/12 10:53	EPA 200
Sodium	26	ppm			2	RM	10/9/12 10:53	EPA 200
Potassium	<5	PPM		2	2	RM	10/9/12 10:53	EPA 200
M Alkalinity	176	ppmCaCO3	J	0	0	GC	9/25/12 11:00	2320B
P Alkalinity	0	ppmCaCO3	j	0	0	GC	9/25/12 11:00	2320B
Chloride	22	ppm		1	1	GC	8/30/12 13:50	EPA 30
Nitrate	11	ppm		1	1	GC	8/30/12 13:50	EPA 30
Sulfate	37	ppm		1	1	GC	8/30/12 13:50	EPA 30
Nitrite	<1	ppm		1	1	GC	8/30/12 13:50	EPA 300
Phosphate	<1	PPM		1	1	GC	8/30/12 13:50	EPA 20
TDS by Evap	314	mg/L		10	10	RM	9/5/12 14:30	2540 C
TDS by Analysis	NA					GC	12/17/12 10:23	
TDS Evp/Anal Ratio	NA					GC	12/17/12 10:23	
pH	7.72		F			RW	8/29/12 11:00	4500-H-
Temperature	19.7	degrees C	F	•		RW	8/29/12 11:00	
Silica	37	PPM	Z	1	1	RM	10/10/12 15:50	EPA 20
COD	<3	MG/L		.5	.5	RM	9/5/12 16:30	Hach 80
BOD	NR	mg/L		1	1	CC	12/14/12 14:43	5210-B
Cyanide (WAD)	NR	mg/L		0.05	0.05	CC	12/14/12 14:43	4500-CI
Oil and Grease	NR	· mg/L		5.0	5.0	CC	12/14/12 14:43	EPA 16
Total Anions	257			80	80	GC	9/25/12 11:00	
Total Cations	223			60	60	RM	10/9/12 10:53	
Cation/Anion Balance	-7.1			•	00	RM	10/9/12 10:53	
Chromium	1.3	ppb		0.5	0.5	CC	10/19/12 10:33	EPA 200
Zinc	7.8	bbp		0.5	0.5	CC	10/19/12 09:31	EPA 200
Atuminum	2.0	ppb		0.5	0.5	CC	10/19/12 09:31	
Arsenic	6.8	ppb		0.5	0.5	CC		EPA 200
garium .	93.2		,	0.5	0.5 0.5	CC	10/19/12 09:31	EPA 201
Boron	0.077	ppb		0.0005			10/19/12 09:31	EPA 201
Sadmium	<0.5	ppm			0.0005	CC	10/19/12 09:31	EPA 200
		ppb		0.5	0.5	CC	10/19/12 09:31	EPA 200
Copper	1.4.	• •		0.5	0.5	CC	10/19/12 09:31	EPA 200
ron	9.0	ppb		0.5	0.5	CC	10/19/12 09:31	EPA 200
.ead	<0.5	ppb		0.5	0.5	CC	10/19/12 09:31	EPA 200
Manganese	<0.5	ppb		0.5	0.5	CC	10/19/12 09:31	EPA 200
/lercury	<0.2	ppb		0.5	0.5	CC	12/14/12 14:43	EPA 245
lickel	<0.5	ppb		0.5	0.5	CC	10/19/12 09:31	EPA 200
Selenium	3.2	ppb		0.5	0.5	CC	10/19/12 09:31	EPA 200
Silver	<0.5	ррь		0.5	0.5	CC	10/19/12 09:31	EPA 200
Strontium	493	ррb		0.5	0.5	CC	10/19/12 09:31	EPA 200
/anadium	28.0	ppb		0.5	0.5	CC	10/19/12 09:31	EPA 200



Chemistry Resources Amarillo Testing Laboratory 7201 N Lakeside Rd, Amarillo TX, 79108



Login Batch 11090016 Collected by RICK WILLIAMS

Login Date Logged in by GC Report Date

09/01/2011

01/23/2013

Project Mgr: Gale Henslee Coples to: Terry Dennis

Scott Brake

Project Name CUNNINGHAM ANNUAL WATER

Labworks ID EH04804 Sample ID		Collection date Collection time	8/31/11 13:25					
D			_	Detection	Reporting		A	44
<u>Parameter</u> Total Hardness	Results 215	Units	Qualifier	Limit (MDL)	Limit (RL)	Analyst	Analysis date / time	Method
Calcium	215 70	ppmCaCO3		1	1 2	RM · RM	9/23/11 12:57	2340B
= =:: - : : :		ppm		2 2	2		9/23/11 12:57	EPA 200,7
Magnesium Sodium	10 29	bbш		2	2	RM RM	9/23/11 12:57 9/23/11 12:57	EPA 200.7
Potassium	29 <5	ppm PPM		2	2	RM		EPA 200,7 EPA 200,7
M Alkalinity	188			0	0	RM	9/23/11 12:57 9/27/11 10:00	
P Alkalinity	0	ppmCaCO3		0.	0	RM	9/27/11 10:00	2320B 2320B
Chloride	-	' '		1	1	GC		•
	37	ppm						EPA 300.0
Nitrate	9	ppm		1	1	GC	9/2/11 15:27	EPA 300.0
Sulfate	41	ppm		1	1	GC	9/2/11 15:27	EPA 300.0
Nitrite	<1	ppm		1	1	GC	9/2/11 15:27	EPA 300,0
Phosphate	<1	PPM		1	1	GC	9/2/11 15:27	EPA 200.7
TDS by Evap	345	mg/L				RM	9/7/11 16:00	2540 C
TDS by Analysis	NA			.01	.01	GC	10/26/11 09:40	
TDS Evp/Anal Ratio	NA			0.01	0.01	GC	10/26/11 09:40	
Hq	7.12					RW	8/31/11 08:00	4500-H+B
Temperature	20.7	degrees C				RW	8/31/11 08:00	
Silica	48	PPM		1	1	RM	9/20/11 13:00	EPA 200.7
COD	4	MG/L		.5	.5	RM	9/7/11 16:30	Hach 8000
BOD	NR	mg/L		1	1	CC	10/17/11 10:10	5210-B
Cyanide (WAD)	NR	mg/L		0.05	0.05	CC	10/17/11 10:10	4500-CN-I
Oil and Grease	NR	mg/L		5.0	5.0	CC	10/17/11 10:10	EPA 1664
Total Anions	292			100	100	RM	9/27/11 10:00	
Total Cations	282			70	70	RM	9/23/11 12:57	
Cation/Anion Balance	-1.7					RM	9/23/11 12:57	
Chromium	3.5	ррb		0.5	0.5	CC	10/17/11 10:10	EPA 200.8
Zinc	6.0	ppb		0.5	0.5	CC	10/17/11 10:10	EPA 200.8
Aluminum	1303	ppb		0.5	0.5	CC	10/17/11 10:10	EPA 200.8
Arsenic	6.5	ppb		0.5	0.5	CC	10/17/11 10:10	EPA 200.8
Barium	101	ppb		0.5	0.5	CC	10/17/11 10:10	EPA 200.8
Boron	<0.5	ppm		0.0005	0.0005	CC	10/17/11 10:10	EPA 200.8
Cadmium	<0.5	ppb	•	0.5	0.5	CC	10/17/11 10:10	EPA 200.8
Copper	16.1	ppb		0.5	0.5	CC	10/17/11 10:10	EPA 200.8
fron	726	ppb		0.5	0.5	CC	10/17/11 10:10	EPA 200.8
Lead	2.2	dqq		0.5	0.5	CC	10/17/11 10:10	EPA 200.8
Manganese	29.6	ppb		0.5	0.5	CC	10/17/11 10:10	EPA 200.8
Mercury	<0.5	ppb		0.5	0.5	CC	10/17/11 10:10	EPA 245.1
Nickel	1.1	ppb		0.5	0.5	CC	10/17/11 10:10	EPA 200.8
Selenium	2.5	ppb		0.5	0.5	CC	10/17/11 10:10	EPA 200.8
Silver	<0.5	ppb		0.5	0.5	CC	10/17/11 10:10	EPA 200.8
Strontium	574	ppb		0.5	0.5	CC	10/17/11 10:10	EPA 200.8
Vanadium	31.6	ppb		0.5	0.5	CC	10/17/11 10:10	EPA 200.8
	01.0	l-t						_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

Sample comments:



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

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

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

(In feet)

POD Number	POD Code Subbasin	County	Q 64		•		Tws	Rng	· x	· Y		Depth Water C	
L 03757	L .	LE		1	1	28	185	36E	653128	3621865*	125	45	80
L 06641	L	LE	4	2	1	30	185	36E	650410	3621720*	110	42	68
L 12367 POD1	L	LE	1	2	4	28	18S	36E	654244 Avera	3621167 age Depth to	92 Water	75 : 54 f e	17 eet

Minimum Depth: 42 feet

Maximum Depth: 75 feet

Record Count: 3

PLSS Search:

Section(s): 28-30

Township: 18S

Range: 36E

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



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

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

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

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

C=the file is (quarters are smallest to largest) (NAD83 UTM in meters) closed)

(In feet)

	POD		Q	Q	Q						Depth	Depth	Water
POD Number	Code Subbasin	County	64	16	4	Sec	Tws	Rng	Х	Y	Well	Water	Column
L 01250	L	LE	3	3	2	21	18S	36E	653812	3622986*	123	40	83
L 07469	Ĺ	LΕ	2	1	3	21	18S	36E	653213	3622770*	160	70	90

Average Depth to Water: 55 feet

> Minimum Depth: 40 feet

Maximum Depth: 70 feet

Record Count: 2

PLSS Search:

Section(s): 19-21

Township: 18\$

Range: 36E



December 19, 2012

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

RE: WEST ARKANSAS JUNCTION WATERFLOOD UNIT

Enclosed are the results of analyses for samples received by the laboratory on 11/30/12 11:46.

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/qa/lab-accred-certif.html.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg & Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



SUNDOWN ENERGY

Project: WEST ARKANSAS JUNCTION WATE

Reported:

P. O. BOX 277

Project Number: NOT GIVEN

19-Dec-12 16:33

WICKETT TX, 79788

Project Manager: KYLE PAXTON

Fax To: NOT GIVEN

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
STATE OF NM #1	H202885-03	Water	28-Nov-12 00:00	30-Nov-12 11:46
STATE OF NM #2	H202885-04	Water	28-Nov-12 00:00	30-Nov-12 11:46
COMP OF TORO 22 #1	1/BOB1202885-05	Water	30-Nov-12 00:00	30-Nov-12 11:46

Cardinal Laboratories

*= Accredited Analyte

In no event shall Cardinal be litable for inci-

Celley & Keine



SUNDOWN ENERGY

Project: WEST ARKANSAS JUNCTION WATE

Reported:

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

19-Dec-12 16:33

Project Manager: KYLE PAXTON

Fax To: NOT GIVEN

STATE OF NM #1 H202885-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	d Laborate	ories					
Inorganic Compounds									
Alkalinity, Bicarbonate	342	5.00	mg/L	1	2110104	HM	13-Dec-12	310.1	
Al <u>kalinity,</u> Carbonate	ND	0.00	mg/L	1	2110104	HM	13-Dec-12	310.1	
Chloride*	122000	4.00	mg/L	1	2113003	AP	04-Dec-12	4500-CJ-B	
Conductivity*	352000	1.00	uS/cm	1	2121806	HM	18-Dec-12	120. I	
pH*	6.89	0.100	pH Units	1	2121811	HM	11-Dec-12	150.1	
Sulfate*	451	10.0	mg/L	1	2120406	ΑP	05-Dec-12	375.4	
Π)S*	205000	5.00	mg/L	1	2113012	ΑP	03-Dec-12	160.1	
Alkalinity, Total*	280	4.00	mg/L	1	2110104	HM	13-Dec-12	. 310.1	
Dissolved Metals						<u></u>			
Calcium	9180	100	mg/L	100	2121907	CK	13-Dec-12	200.7	GAL
Magnesium	1900	100	mg/L	100	2121907	CK	13-Dec-12	200.7	GAL
Potassium	1230	100	mg/L	100	2121907	CK	13-Dec-12	200.7	GAL
Sodium	59200	100	mg/L	100	2121907	CK	13-Dec-12	200.7	GAL

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Likelitally lend Demagnes. Cardinal's Election and Electric exclusive members for any claim arising, whether based in context or fort, shift ha limited to the lifecurity paid the deemed withhet unders made in writing and received by Claim, which thirty (30) days after completion of the applicable services. In no event shall Curdinal be labeled in writing and received by Clarifical weight thirty (30) days after completion of the applicable services. In no event shall Curdinal be labeled to incident or consequential demagner including, without justification, business interruptions, loss of use, or loss of profes incurred by client, is adaptificated, or acceptant a string out of or neithful to the performance of the services haveunder by Curdinal, regardless of whether such Claims is beset upon entry of the above plated measure or otherwise. Results related only to the services have under the performance of the services have under the performance of the services have under the performance of the services have under the performance of the services have under the performance of the services have under the performance of the services have under the performance of the services have under the performance of the services have under the performance of the services have under the performance of the services have under the performance of the services have under the performance of the services. All datures there is no expected by the performance of the services. All datures there is no expected by the performance of the services. All datures there is no expected by the performance of the services. All datures there is no expected by the performance of the services. All datures there is no expected by the performance of the services. All datures there is no expected by the performance of the services. All datures there is no expected by the performance of the services. All datures the performance of the performance of the services. All datures there is no expected by the performance of the services. All datures

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SUNDOWN ENERGY P. O. BOX 277 WICKETT TX, 79788 Project: WEST ARKANSAS JUNCTION WATE

Reported: 19-Dec-12 16:33

Project Number: NOT GIVEN
Project Manager: KYLE PAXTON

Fax To: NOT GIVEN

STATE OF NM #2 H202885-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyss	Analyzed	Method	Notes
	-	Cardina	al Laborat	ories				•	
Inorganic Compounds	<u> </u>								
Alkalinity, Bicarbonate	97.6	5,00	mg/L	1	2110104	HM	13-Dec-12	310,1	
Alkalinity, Carbonute	ND	0.00	mg/L	1	2110104	HM	13-Dec-12	310.1	
Chloride*	144000	4.00	mg/L	1	2113003	ΑÞ	04-Dec-12	4500-CI-B	
Conductivity*	414000	1.00	uS/cm	1	2121806	HM	18-Dec-12	120.1	
рН*	4.72	0.100	pH Units	1	2121811	HM	11-Dec-12	150.1	
Sulfate*	ND	10.0	mg/L	1	2120406	ΑÞ	05-Dec-12	375.4	
TDS*	234000	5.00	mg/L	2	2113012	AP	03-Dec-12	160,1	
Alkalinity, Total*	80.0	4.00	mg/L	1	2110104	HM	13-Dec-12	310,1	
Dissolved Metals	<u></u>			<u> </u>	<u> </u>				
Calcium	10400	100	mg/L	100	2121907	CK	13-Dec-12	200.7	GAL
Magnesium	2390	100	mg/L	100	2121907	CK	13-Dec-12	200.7	GAL
Potassium	1480	100	mg/L	100	2121907	CK	13-Dec-12	200.7	GAL
Sodium	68700	100	mg∕L.	100	2121907	CK	13-Dec-12	200.7	GAL

Cardinal Laboratories

*≈Accredited Analyte

PLEASE NOTE: Liability and Dentages. Currical's Babby and dight's exclusive remody for any claim arising, whether based in combine or one, shall be almost to dish whether to dish any claim arising, whether based in combine or one of the applicable service. In one went shall Currical to Earlie in inclaiming the arising dish after completion of the applicable service. In one went shall Currical to Earlie in inclaiming without including, whether inclaiming whether including, whether inclaiming whether inclaiming whether inclaiming whether inclaiming whether inclaiming whether inclaiming whether inclaiming whether inclaiming the property of the services hereautier by Cardinal, regardless or whether succidence arising out of or relation to the performance of the services hereautier by Cardinal, regardless or whether succidence arising out of or relation to the performance of the services hereautier by Cardinal, regardless or whether succidence arising out of or relation to the performance of the services hereautier by Cardinal, regardless or whether succidence arising out of or relation to the performance of the services hereautier by Cardinal, regardless or whether succidence arising out of or relation to the performance of the services hereautier by Cardinal, regardless or whether succidence arising out of or relation to the performance of the services hereautier by Cardinal, regardless or whether succidence arising out of or relation to the performance of the services hereautier by Cardinal, regardless or whether succidence arising out of or relation to the performance of the services hereautier by Cardinal arising the services are required to the performance of the services are required to the performance of the services are required to the performance of the services are required to the performance of the services are required to the performance of the services are required to the performance of the services are required to the performance of the services are required to the performance of the services are requ

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SUNDOWN ENERGY

Project: WEST ARKANSAS JUNCTION WATE

Reported:

P. O. BOX 277

Project Number: NOT GIVEN

19-Dec-12 16:33

WICKETT TX, 79788

Project Manager: KYLE PAXTON

Fax To: NOT GIVEN

COMP OF TORO 22 #1/BOBBI #5

H202885-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
	<u>-</u>	Cardina	l Laborat	ories					
Inorganic Compounds									
Alkalinity, Bicarbonate	244	5.00	mg/L	1	2110104	HM	13-Dec-12	310.1	
Alkalinity, Carbonate	ND	0.00	mg/L	1	2110104	HIM	13-Dec-12	310.1	
Chloride*	146000	4.00	mg/L	I	2120402	HIM	17-Dec-12	4500-CI-B	
Conductivity*	486000	1.00	uS/cm	1	2121806	HM	18-Dec-12	120.1	
pH*	6.74 \	0.100	pH Units	1	2121810	HM	11-Dec-12	150.1	
Resistivity	0.0206		Ohms/m	1	2121908	HM	18-Dec-12	120.1	
Specific Gravity @ 60° F	1.189	0.000	[blank]	. 4	2121909	HM	19-Dec-12	SM 2710F	
Sulfate*	239	10.0	mg/L	1	2120406	AP	05-Dec-12	375.4	
TDS*	243000	5.00	mg/L	1	2113012	ΑP	05-Dec-12	160,1	
Alkalinity, Total*	200	4.00	mg/L	· i	2110104	HM	13-Dec-12	310.1	
Dissolved Metals									
Barium	ND	1.00	mg/L	100	2121907	CK	13-Dec-12	200.7	GAL
Calcium '	15800	100	mg/L	100	2121907	CK	13-Dec-12	200.7	GAL
Iros	ND	5.00	mg/L	100	2121907	CK	13-Dec-12	200,7	GAL
Magnesium	3400	100	mg/L	100	2121907	CK	13-Dec-12	200.7	GAL
Potassium	1320	100	mg/L	100	2121907	CK	13-Dec-12	200.7	GAL
Sodium	59600	100	mg/L	100	2121907	CK	13-Dec-12	200.7	GAL

Cardinal Laboratories *=Accredited Analyte

Celey & Keena



SUNDOWN ENERGY P. O. BOX 277 WICKETT TX, 79788 Project: WEST ARKANSAS JUNCTION WATE

Reported: 19-Dec-12 16:33

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	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2110104 - General Prep - Wet Chem										
Blank (2110104-BLK1)		_		Prepared &	Analyzed:	31-Oct-12				
Alkalinity, Carbonate	ND	0.00	mg/L							
Alkalinity, Bicarbonate	ND	5.00	mg/L							
Alkalinity, Total	ND	4,00	mg/L							
LCS (2110104-BS1)				Prepared &	Analyzed:	31-Oct-12				
Alkalinity, Carbonate	ND	0.00	mg/L				80-120			
Alkalinity, Bicarbonate	137	5.00	mg/L				80-120			
Alkalinity, Total	112	4.00	mg/L	100		112	80-120			
CS Dup (2110104-BSD1)				Prepared &	Analyzed:	31-Oct-12				
Alkalinity, Carbonate	ND	0,00	mg/L				80-120		20	-
Alkalinity, Bicarbonate	137	5.00	mg/L				80-120	0.00	20	
Alkalinity, Total	112	4.00	mg/L	100		112	80-120	0.00	20	
Batch 2113003 - General Prep - Wet Chem					=			,		
Blank (2113003-BLK1)				Prepared &	Analyzed:	30-Nov-12				
Diloride	ND	4.00	mg/L							
.CS (2113003-BS1)				Prepared &	Analyzed:	30-Nov-12				
Chloride	100	4.00	mg/L	100		100	80-120			
.CS Dup (2113003-BSD1)				Prepared &	: Analyzed:	30-Nov-12				
hloride	104	4.00	mg/L	100		104	80-120	3.92	20	
Satch 2113012 - Filtration										
Blank (2113012-BLK1)				Prepared: 3	0-Nov-12	Analyzed: 0	7-Dec-12			_
DS .	ND	5.00	mg/L			' ·				

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Limbshy and Damabes. Cardinal's liability and client's exclusive ries, artilistus or successors arising out of or midulad to the performance of the services hereunder by Cardinal, regardless of whether such

Celey D. Keine



SUNDOWN ENERGY P. O. BOX 277 Project: WEST ARKANSAS JUNCTION WATE

Reported:

P. O. BOX 277 WICKETT TX, 79788 Project Number: NOT GIVEN
Project Manager: KYLE PAXTON
Fax To: NOT GIVEN

19-Dec-12 16:33

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC	RPD	RPD Limit	Notes
, many tr	resur	THE PARTY.	عسد	TEACI	1709001	/MALC		10 0		1,010
Batch 2113012 - Filtration										
LCS (2113012-BS1)				Prepared: 3	30-Nov-12	Analyzed: (7-Dec-12			
TDS	239	·	mg/L	240		99.6	80-120			
Duplicate (2113012-DUP1)	Sou	rce: H202878-	01	Prepared: 3	30-Nov-12 A	Analyzed: (7-Dec-12			
TDS	2410	5.00	mg/L		2510			4.31	20	
Batch 2120402 - General Prep - Wet Chem										<u> </u>
Blank (2120402-BLK1)				Prepared &	: Analyzed:	04-Dec-12				
Chloride	ND	4,00	mg/L		-				·	
LCS (2120402-BS1)				Prepared &	: Analyzed:	04-Dec-12				
Chloride	104	4,00	mg/L	100		104	80-120			
LCS Dup (2120402-BSD1)				Prepared &	: Analyzed:	04-Dec-12				
Chloride	100	4.00	mg/L	100		100	80-120	3.92	20	
Batch 2120406 - General Prep - Wet Chem										
Blank (2120406-BLK1)				Prepared: 0	14-Dec-12 A	nalyzed: 0	5-Dec-12			
Sulfate	ND	10.0	mg/L							
LCS (2120406-BS1)				Prepared: 0	14-Dec-12 A	nalyzed: 0	5-Dec-12			
Sulfate	23.5	10.0	mg/L	20,0		117	80-120	·		
LCS Dup (2120406-BSD1)				Prepared: 0	4-Dec-12 A	nalyzed: 0	5-Dec-12			
Sulfate	23.2	10.0	mg/L	20.0		116	80-120	1.33	20	

Cardinal Laboratories

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REASE NOTE: Liability and Denegoes. Controll's biolistic and disent's exclusive remedy for any claim integra, whether based in contract or tord, shall be limited to the amount paid by claim for analyses. All claims, including those for negligence and any other cause Welstoower shall be dearned without unified made in writing and received by Clendral within thirty (30) days after competition of the applicable service. In no event shall Cardinal be Basic for incidental to Cardinal within thirty (30) days after competition of the applicable service. In no event shall Cardinal be Basic for incidental by Clendral within thirty (30) days after competition of the applicable service. In no event shall Cardinal be Basic for incidental by Clendral incidents, within thirty (30) days after controlled and the applicable service. In no event shall cardinal be Basic for incidents or consequently and the service shall be applicable service. In no event shall cardinal be Basic for incidents and inc

Celay & Keine



SUNDOWN ENERGY P. O. BOX 277

Project: WEST ARKANSAS JUNCTION WATE

Reported: 19-Dec-12 16:33

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	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2121806 - General Prep - Wet Chem										
LCS (2121806-BS1)	_			Prepared &	z Analyzed:	18-Dec-12				
Conductivity	478		uS/cm	500		95,6	80-120			
Duplicate (2121806-DUP1)	Sou	rce: H203018	-01	Prepared &	Analyzed:	18-Dec-12				
Conductivity	1530	1.00	uS/cm		1530			0,00	20	
Batch 2121810 - NO PREP										
LCS (2121810-BS1)				Prepared &	Analyzed:	11-Dec-12				
pH	7.08	<u>-</u>	pH Units	7.00		101	90-110		· · · · ·	
Duplicate (2121810-DUP1)	Sou	rce: H202922	-01	Prepared &	: Analyzed:	11-Dec-12				
H	7.86	0.100	pH Units		7.82		•	0.510	20	
Batch 2121811 - NO PREP										<u> </u>
LCS (2121811-BS1)				Prepared &	Analyzed:	13-Dec-12				
νΗ	6.99		pH Units	7.00		99.9	90-110			
Duplicate (2121811-DUP1)	Sou	rce: H202885	-03	Prepared &	Analyzed:	13-Dec-12				
DH .	7.12	0.100	pH Units	•	6.89			3.28	20	
Batch 2121909 - General Prep - Wet Chem										
Duplicate (2121969-DUP1)	Sen	rce: H202825	-03	Prepared &	Analyzed:	19-Dec-12	_			
Specific Gravity @ 60° F	1.014	0.000	[blank]		1.016			0,216	200	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liebstry and Desnages. Cardinal's bability and classics exclusive remedy for any may other cause westconver shall be disamed wested unless roads in writing and received by Cardinal within 1981y (30) days after completion of the applicable service. In new wested control to the performance of the services between the services of profits incurred by clerk, its actualisment, efficience or successors intomy out of or related to the performance of the services beneated by Cardinal profits incurred by clerk, its actualisment, efficience or successors intomy out of or related to the performance of the services beneated by Cardinal profits incurred by Cardinal profits in the performance of the services beneated by Card

Celay & Keine

%REC



Analytical Results For:

SUNDOWN ENERGY P. O. BOX 277 WICKETT TX, 79788 Project: WEST ARKANSAS JUNCTION WATE

Source

Reported: 19-Dec-12 16:33

RPD

Project Number: NOT GIVEN Project Manager: KYLE PAXTON

Fax To: NOT GIVEN

Spike

Dissolved Metals - Quality Control

Cardinal Laboratories

Reporting

		14choreme		-part	00-00		,			
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2121907 - Dissolved/Potential	ly Dissolved Metals	···			_					
Biank (2121907-BLK1)				Prepared: 1	2-Dec-12 A	nalyzed: 1	3-Dec-12			
Magnesium	ND	1,00	mg/L							
Potassium	ND	1.00	mg/L							
Sodium	ND	1.00	mg/L							•
Barium	ND	0.010	mg/L							
Calcium	ND	1.00	mg/L				•			
ron	ND	0.050	mg/L							
LCS (2121907-BS1)				Prepared: 1	2-Dec-12 A	nalyzed: 1	3-Dec-12			
Magnesium	26.3		mg/L	25.0		105	85-115			
Sodium	7.88		ம ழ∕1∟	8,10		97.3	85-115			
Calcium	4,68		mg/L	5.00		93.6	85-115			
otassium	9.85		mg/L	10.0		98.5	85-115			
Barium	2,36		mg/L	2.50		94.4	85-115			
ron	4.87		mg/L	5.00		97.4	85-115			
LCS Dup (2121907-BSD1)		_		Prepared: 1	2-Dec-12 A	analyzed: 1	3-Dec-12			
Sodium	7.87		mg/L	8.10		97.2	85-115	0.127	20	
ron	4.91		mg/L	5.00		98.2	85-115	0.818	20	
Calcium	4.71		mg/L	5.00		94.2	85-115	0.639	20	
otassium	9.69		mg/L	10.0		96.9	85-115	1,64	20	
Magnesium	26.3		mg/L	25.0		105	85-115	0.00	20	
Sarium	2.36		mg/L	2.50		94.4	85-115	0.00	20	

Cardinal Laboratories

*≈Accredited Analyte



Notes and Definitions

GAL Analysis subcontracted to Green Analytical Laboratories, a subsidiary of Cardinal Laboratories.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

Insufficient time to reach temperature.

Chloride by SM4500CHB does not require samples be received at or below 6°C

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

Cardinal Laboratories

*=Accredited Analyte

PLEASE MOTE: Listed by land Decotings. Ordinals's labelity and clients' exclusive resembly for any claims arising, whether based in contract or sort, shall be lambard to the annount paid by client for analyses. All chaims, including those for nephaganics and any other changes excitioned in the applicable service. In no event shall Cardinal be labele for including without a shall be applicable service. In no event shall Cardinal be labele for including without a shall be applicable service. In no event shall Cardinal be labele for including without a shall be applicable service. In no event shall Cardinal be labeled for consumed by client, is a subject of shall be applicable, and the applicable service. In no event shall Cardinal be labeled for consumed by client, is a subject of shall be applicable and the applicable service. In no event shall Cardinal and Cardinal be labeled for consumer of the services hereundor by Cardinal and the shall cardinal and the shall be applicable to the performance of the services hereundor by Cardinal and the shall cardinal and the shall cardinal and the shall be applicable to the shall be applicable to the services. All chaims, including those for negligible and the shall cardinal and the s

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	3/3) 393-2326 FAX	(5/5) 353-24/6																<u></u>		
Company Name:		n Energy	X		L_	BI	LL TO	. 1					ANAL	YSIS	RE	QUE:	ST	i		
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Sampler Name:	Jason H	<u> </u>			Fax	#:				ĺ										
FOR LAB USE ONLY			П	MATRIX	P	RESERV.	SAMPLII	VG	7.											
Lab I.D. [[22:785- 기	Sample I.I	D.	(G)RAB OR (C)OMP.	GROUNDWATER WASTEWATER SOIL	OTHER:	ACID/BASE ICE / COOL OTHER:	DATE	TIME	Color											
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CARDINAL LABORATORIES SCALE INDEX WATER ANALYSIS REPORT

Company

SUNDOWN ENERGY

Date Sampled: 11/30/12 Company Rep.: KYLE PAXTON

Lease Name :

WEST ARKANSAS JCT. WATERFLOOD U.

Well Number : COMPOSITE Location : NOT GIVEN

COMPOSITE OF TORO 22 # 1 & BOBBI #5

1. pH 2. Specific Gravity @ 60/60 F. 3. CaCO3 Saturation Index @ 80 F.
2. Specific Gravity @ 60/60 F. 3. CaCO3 Saturation Index @ 80 F. @ 140 F. Dissolved Gasses 4. Hydrogen Sulfide 5. Carbon Dioxide 6. Dissolved Oxygen Cations 7. Calcium (Ca++) 8. Magnesium (Mg++) 1.1890 1
3. CaCO3 Saturation Index @ 80 F.
Dissolved Gasses Hydrogen Sulfide ND PPM 5. Carbon Dioxide ND PPM 6. Dissolved Oxygen Not Determined Cations mg/L / Eq. Wt. = MEQ/L 7. Calcium (Ca++) 15,800.00 / 20.1 = 786.07 8. Magnesium (Mg++) - 3,400.00 / 12.2 = 278.69
Dissolved Gasses 4. Hydrogen Sulfide ND PPM
5. Carbon Dioxide 6. Dissolved Oxygen Cations 7. Calcium (Ca++) 8. Magnesium (Mg++) Not Determined mg/L / Eq. Wt. = MEQ/L 7. Calcium (Ca++) 15,800.00 / 20.1 = 786.07 12.2 = 278.69
6. Dissolved Oxygen
Cations mg/L / Eq. Wt. = MEQ/L 7. Calcium (Ca++) 15,800.00 / 20.1 = 786.07 8. Magnesium (Mg++) 3,400.00 / 12.2 = 278.69
7. Calcium (Ca++) 15,800.00 / 20.1 = 786.07 8. Magnesium (Mg++) 3,400.00 / 12.2 = 278.69
8. Magnesium (Mg++) - 3,400.00 / 12.2 = 278.69
9. Sodium (Na+) 59,600 / 23.0 = 3,056.81
10. Barium (Ba++) $0.000 / 68.7 = 0.00$
Anions
11. Hydroxyl (OH-) $0 / 17.0 = 0.00$
12. Carbonate (CO3=) 0 / 30.0 = 0.00
13. Bicarbonate (HCO3-) 244 / 61.1 = 3.99
14. Sulfate (SO4=) 239 / 48.8 = 4.90
15. Chloride (CI-) 146,000 / 35.5 = 4,112.68
Other
16. Soluble Iron (Fe) 0.000 / 18.2 = 0.00
17. Total Dissolved Solids 243,000
18. Total Hardness As CaCO3 53,454.0
19. Calcium Sulfate Solubility @ 90 F. 919
20. Resistivity (Measured) 0.021 Ohm/Meters @ 77 Degrees (

Logarithmic Water Pattern

10,000 1,000 100 10 10 100 1,000 10,000

PROBABLE MINERAL COMPOSITION

COMPOUND	Eq. Wt.	X	MEQ/L	=	mg/L						
Ca(HCO3)2	81.04	X	3.99	=	324						
CaSO4	68.07	X	4.90	=	333						
CaCl2	55.50	Х	777.18	=	43,133						
Mg(HCO3)2	73.17	X	0.00	=	0						
MgSO4	60.19	Χ	0.00	=	0						
MgCl2	47.62	Χ	278.69	=	13,271						
NaHCO3	84.00	X	0.00	=	0						
NaSO4	71.03	X	0.00	=	0						
NaCl	58.46	X	3,056.81	=	178,701						

Form C-108 Affirmative Statement Sundown Energy, LP

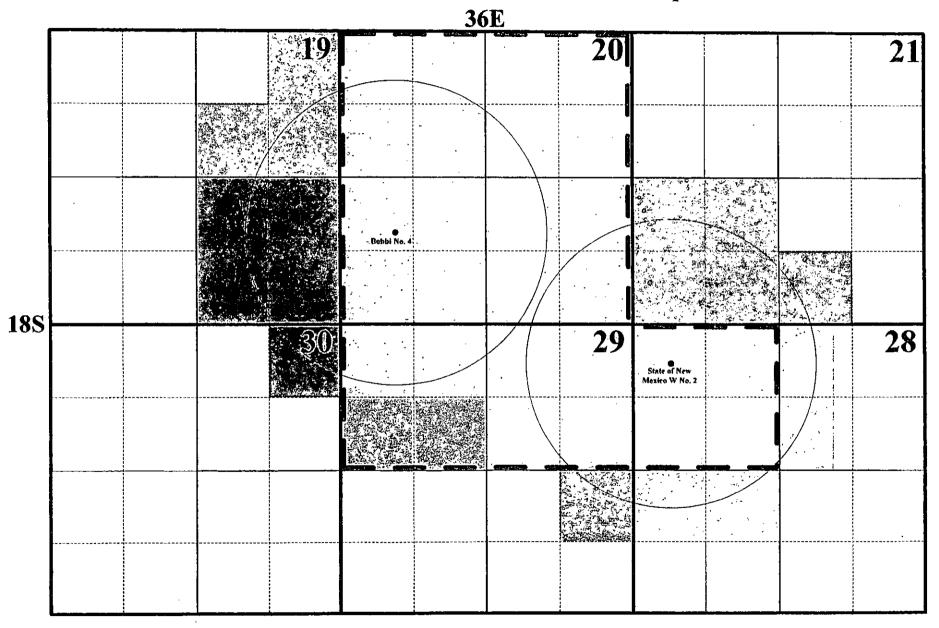
Bobbi No. 4 & State of New Mexico W No. 2 Sections 20 & 28, T-18 South, R-36 East, NMPM, Lea County, New Mexico

Available geologic and engineering data has been examined and no evidence of open faults or hydrological connection between the injection zone and any underground sources of drinking water has been found.

Ross Pearson

Area Production Manager Sundown Energy, LP Date

Sundown Energy, LP Bobbi State Unit Waterflood Project Offset Leasehold Identification Map



— — Proposed Bobbi State Unit Waterflood Area

Sundown Energy, LP Form C-108: Bobbi No. 4 & State of New Mexico W No. 2 Sections 20 & 28, T-18 South, R-36 East, NMPM Lea County, New Mexico

Offset Operator/Leasehold Owner Identification & Notification List

Section 19:

E/2 NE/4 & SW/4 NE/4:

Lessee:

Crown Energy Partners IV, LP

Attn: Brian Arnold P.O. Box 50820

Midland, Texas 79701

SE/4:

Record Title Holder: Chevron USA, Inc.

Attn: Notices-Lea County, NM

P.O. Box 2100

Houston, Texas 77252

Section 20:

W/2:

Record Title Holder: EOG Resources

P.O. Box 4362

Houston, Texas 77210-4362

Operator/Lessee:

Sundown Energy, LP

*Fortune Natural Resources Corp.

SE/4 & SW/4 NE/4:

Lessee:

Fortune Natural Resources Corp.

Section 21:

SW/4 & SW/4 SE/4:

Lessee:

Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210

Section 28:

W/2 NE/4 & N/2 SW/4:

Lessee:

Crown Energy Partners IV, LP

NW/4:

Operator/:Lessee:

Sundown Energy, LP

Fortune Natural Resources Corp.

Sundown Energy, LP Form C-108: Bobbi No. 4 & State of New Mexico W No. 2 Sections 20 & 28, T-18 South, R-36 East, NMPM Lea County, New Mexico

Offset Operator/Leasehold Owner Identification & Notification List (Cont.)

Section 29:

NE/4 & N/2 NW/4:

Operator/Lessee: Sundown Energy, LP

S/2 NW/4:

Record Title Holder: Crescent Porter Hale Foundation

655 Redwood Highway, #301

Mill Valley, CA 94141

NE/4 SE/4:

Lessee: Yates Petroleum Corporation

Section 30:

NE/4 NE/4:

Lessee: Chevron USA, Inc.

Surface Owner: Bobbi No. 4 & State of New Mexico W No. 2

Commissioner of Public Lands P.O. Box 1148 Santa Fe, New Mexico 87504-1148

Additional Notice

Oil Conservation Division 1625 N. French Drive Hobbs, New Mexico 88240

* Fortune Natural Resources Corporation & Sundown Energy, LP are the same entity.