STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

FORM C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

-	
I.	PURPOSE: X Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Yes X No
П.	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:
	schematic of any plugged well illustrating all plugging detail. Attach data on the proposed operation, including: 1. Proposed average and maximum daily rate and volume of fluids to be injected; 2. Whether the system is open or closed; 3. Proposed average and maximum injection pressure; 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
*VIII.	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: DATE: 7/16/13
*	E-MAIL ADDRESS:rpearson@sundownenergy.com If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

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

Arco 28 State Well No. 1 API No. 30-025-29340 660' FNL & 660' FEL (Unit A) Arco 28 State No. 2 API No. 30-025-29526 330' FNL & 1650' FEL (Unit B)

Both in Section 28, T-18S, R-35E, NMPM Lea County, New Mexico

- I. The purpose of the application is to request approval to re-enter the plugged and abandoned Arco 28 State Wells No. 1 & 2 and convert these wells to Queen water injection wells within the proposed Reeves Queen Unit Waterflood Project which will initially comprise the SE/4 SE/4 of Section 21, SW/4 of Section 22, NW/4 of Section 27 and the NE/4 of Section 28, all in Township 18 South, Range 35 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 1,000 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 894 psi. The maximum surface injection pressure is anticipated to be approximately 2,200 psi. If a surface injection pressure above 894 psi is necessary, Sundown will conduct step rate injection tests to determine the fracture pressure of the Queen formation in this area.
- Produced water from the Devonian and Queen formations will be injected into the subject wells. Attached is a Devonian produced water analysis from Paladin Energy Corporation's South Vacuum Well No. 5 and a Queen produced water analysis from Sundown's Lea 403 State Well No.
 Also attached is a compatibility test indicating that slight scaling may
- 5. Injection is to occur into a formation that is oil productive.

VIII. Geologic Series:

Guadalupian

result from combining Devonian and Queen produced water.

Geologic Formation:

Queen

Thickness:

16 Feet

Lithology:

Sandstone

USDW's:

Ogallala is present at a maximum depth of

approximately 156 feet according to attached data obtained from the New Mexico State Engineer's Office. The average depth to water in this area is

approximately 73-76 feet.

- IX. No stimulation of the wells is planned
- X. Logs were filed at the time of drilling.
- XI. Attached is a fresh water analysis obtained 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

			•	
WELL LOCATION: 660' FNL & 660' FEL	A	28	18 South	35 East
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE
WELLBORE SCHEMATIC	<u>WELL C</u>	ONSTRUCTIO		
		Surface Casing		,
See Attached Wellbore Schematic	Hole Size: 17 ½"	Cas	ing Size: <u>13 3/</u>	<u>/8" @ 490'</u>
	Cemented with: 475	<u> Sx.</u> or_	· · · · · · · · · · · · · · · · · · ·	ft
	Top of Cement: Sur	rface Met	hod Determined	1: <u>Circulate</u>
	<u> In</u>	termediate Casi	ng	
	Hole Size: 11"	Cas	sing Size: <u>8 5/8</u>	3" @ 3,910
	Cemented with: 170	00 Sx or		ft
	Top of Cement: Sur	rface Met	thod Determined	d: <u>Circulat</u>
	1	Production Casi	ng	
	Hole Size: 7 7/8"	Cas	ing Size: 4 ½" (<u>@ 4,652'</u>
	Cement with: 480 Sx.	or_		ft
	Top of Cement: 1,750'	· Me	thod Determined	d: <u>T.S.</u>
	Total Depth: 10,300'	PBTD: 4,652'		
	Ini	ection Interval	·	

Perforated Interval -4,472'-4,488'

INJECTION WELL DATA SHEET

Tubing	g Size: 2 3/8" 4.7#_ J-55	Lining Material:	Internally Plastic Coated	·
Туре о	of Packer: <u>Baker AD-1 Injection Packer</u>	·	<u> </u>	
Packer	Setting Depth: 4,422' or within 100' of	f the uppermost injection	perforations	
Other 7	Type of Tubing/Casing Seal (if applicable):N	None	· · · · · · · · · · · · · · · · · · ·	<u> </u>
	Additiona	al Data		٠.
1.	Is this a new well drilled for injection:	Yes	X No	
	If no, for what purpose was the well originally drilled subsequently completed as a producing well in the Qu		1985 to test deep formations, a	and was
2.	Name of the Injection Formation: Queen			
3.	Name of Field or Pool (if applicable): Reeves-	Queen Pool (Oil-52070)		
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	d intervals and give plugging de	etail,
•	None			<u> </u>
5.	Give the name and depths of any oil or gas zones und in this area:	derlying or overlying the p	proposed injection zone	
	Within the proposed waterflood project area in Section 9,000's South Vacuum-Devonian (11,000'-12,000')			Pool (8.0

Current Wellbore Configuration

Sundown Energy, LP
Arco 28 State No. 1
API No. 30-025-29340

urface 660' FNL & 660' FEL (Unit A)
Section 28, T-18 South, R-35 East, NMPM

10 Sx. surface

Set Cut Set

17 1/2" Hole; Set 13 3/8" J-55 Csg @ 490'

Cemented w/475 Sx.

Cement circulated to surface

Set 40 sx. cement plug 341'-525'

Drilled: 7/1985

Plugged: 5/1997

Cut & pulled 4 1/2" casing @ 1,375' Set 25 sx. cement stub plug 1,290'-1,425'

TOC @ 1,750' by T.S.

11" Hole; Set 8 5/8" K-55 csg @ 3,910' Cemented w/1700 sx. Cement circulated to surface

Set CIBP @ 4,400' w/25 sx. cement on top

Queen Perforations: 4,472'-4,488'

7 7/8" Hole; Set 4 1/2" K-55 csg @ 4,652"

Cemented w/480 sx. TOC @ 1,750 by T.S.

Set 60 Sx. cement plug @ 4,652'-4,743'

Set 50 Sx. cement plug @ 5,542'

Set 55 Sx. cement plug @ 7,114'

Set 55 Sx. cement plug @ 8,784'

Set 55 Sx. cement plug @ 9,865'

T D 10 300

NO. OF COPIES RECEIVED	·		Form C-103
DISTRIBUTION		•	Supersodes Old
SANTA FE	NEW MEXICO	OIL CONSERVATION COMMISSION	C-102 and C-103 Effective 1-1-65
FILE .		* •	
U.S.G.S.			Sa. Indicate Type of Lease
LAND OFFICE		•	State X Fee
OPERATOR			5. State Oil 6 Gas Lease No.
<u> </u>	L		
SUI	NDRY NOTICES AND REF	PORTS ON WELLS JEN OR PLUG BACK TO A DIFFERENT RESERVOIR.	
OIL X WELL	DTHER-	·	7, Unit Agreement Name
2. Name of Operator		•	8, Furm or Lease Name
Tamarack Petrolet 3. Address of Operator	um Company, Inc.		Arco "28" State ./
P. O. Box 2046, N	Midland, TX 79702		#1 10. Field and Pool, or Wildcat
	560	Nowth 660	<u> </u>
UNIT LETTER A	DOU FEET FROM THE	North LINE AND 660	EET FROM South Vacuum
THE East LINE, 5	ECTION 28 YOWNSH	185 RANGE 138E	_ NMPM. (())
mmmmm	WWW 15 Flevation (9	how whether DF, RT, GR, etc.)	12. County
(//////////////////////////////////////	3910.		Lea
1	• • •	Indicate Nature of Notice, Report	
NOTICE O	F INTENTION TO:	SUBSE	QUENT REPORT OF:
. —	•		
PLAFORM REMEDIAL WORK	PLUG AND A	- -1.	ALTERING CASING
TEMPORARILY ABANDON		COMMENCE DRILLING OPNS.	PLUG AND ABANDONMENT
PULL OR ALTER TASING	CHANGE PLA	CASING TEST AND CEMENT JOB	<u>~</u>
	•	OTHER	
OTHER		——————————————————————————————————————	
17. Describe Proposed or Complete	ed Overations (Clearly state all	pertinent details, and give pertinent dates, i	including estimated date of starting any proposed
work). SEE RULE 1 103.			
3. Cemented to surface 4. Nippled up Shaffer 5. Drill 11" hole from 6. Ran 93 jts. 8 5/8" 7. Cement w/1500 sks I Circulated 125 sach 8. Nipple up Shaffer 19. Drill 7 7/8" hole 10. Pump 55 sks Class I H Neat at 7114'. Pun top of plug at 4602 11. Ran 124 its 4 1/2	54.50# J-55 casing. e with 475 sks Class Series 900 Type E E m 490 to 3910. 24 & 32# K-55 casing Halliburton Lite 1/4 ks. Series 900 Type E BC from 3910' to 10,300 H Neat at 9865'. Pur mp 50 sks Class C No 2'. Dress off with 7 10.50# K-55 casing	Set at 490' on 7-24-85. C 2% CaCl ₂ circulated 60 BOPE and tested to 2000#. The set of	sks Class C 2% C _a Cl ₂ . 3-85. 3784! Pump 55 sacks Class class C Neat at 4743'. Tag
13. Tested casing to 2	SOO# Released rin!	R-26-85.	The comments are all a seminary
is. rested casing to 2:	Jour, Reseased Fig.	J-29-03.	
	•		
18. I hereby certify that the informa-	ation above is true and complete	to the best of my knowledge and belief.	
STENED Frank 18	Milley	Engineering Manager	9-11-85
Gidainal signer	CALL TRACKY CENTON SAFERINA ON		
APPHOVED BY	1000 NO. 150 P.	TITLE	DRIA

Submit 3 Copies to Appropriate District Office

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-103

Revised 1-1-89

DISTRICTI P.O. BOX 1940, HODEL NM 48240 OIL CONSERVATION P.O. BOX 1940, HODEL NM 48240	DIVISION W	ELL API NO.	
P.O. Box 2088 DISTRICT II Santa Fe, New Mexico 87	7504-2088	30-025-29340	
P.O. Drawer DD, Ariesia, NM 18210	3	STATE X	FEE 🗆
DISTRICT III 1000 Rio Brazos Rd., Azioc, NM 87410	-	S2016 Oil & Gu Lesse No. 01-A-28-18S-35E	
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OF DIFFERENT RESERVOIR. USE "APPLICATION FOR PERM (FORM C-101) FOR SUCH PROPOSALS.)	R PLUG BACK TO A	Lesse Name or Unit Agreement Name ARCO "28" State	
I. Type of Well: OIL GAS WELL [X] WELL OTHER			
2. Name of Operator		Well No.	
Tamarack Petroleum Co., Inc.	·	. 1	
3 Address of Operator 500 W. Texas, Suite 1485 - Midland, TX 79701		Pool name or Wildcat Reeves (Queen)	:
4. Well Location			
Unit Letter A : 660 Foot From The North	Line and660	Foot From TheEast	l.me
Section 28 Township 18S Range	35E NN	rm Lea	County
10. Elevation (Show whether De	, RKB, RT, GR, etc.)		
11. Check Appropriate Box to Indicate Na	num of Notice Ren	or or Other Data	
NOTICE OF INTENTION TO:		EQUENT REPORT OF:	
	•	CT :	
	REMEDIAL WORK	☐ ALTERING CASING	ריים ויים
TEMPORARILY ABANDON CHANGE PLANS	COMMENCE DRILLING O	PNS. 🔲 PLUG AND ABANDON	IMENT KX
PULL OR ALTER CASING	CASING TEST AND CEM	ENT JOB C	
OTHER:	OTHER:		🗆
12 Describe Proposed or Completed Operations (Clearly state all pertinent details, and pwork) SEE RULE 1103.	five pertinent dates, including	s estimated date of starting any proposed	
5/9/97 Spot 40 sks cement @ 525'. Tag @		a Par BOC	
5/10/97 Spot 10 sks cement from 30' to sur 5/12/97 Set dry hole	s wark	er lei ou	4
	·		
•	•		
•		•	
I hereby certify that the information above to true and complete to the best of my knowledge and be	dief.		
SKONATURE CONCRETE ON MARCON TIME	President	5/13/9	97
TYPE OR FROM HAME Charley Gregg - SNG Well P&A Ser	vices, LLC	TELEPHONE NO.	
Citing there are state that	01		
	$\mathcal{O}(M_{\star}) \simeq 200$	TOTAL TOR	•
APPROVED BY WAY WAY WAY THE	Clare Street	S SEPECTOR	}

Proposed Wellbore Configuration

Configuration

Boy Set Cer

Sundown Energy, LP
Arco 28 State No. 1
API No. 30-025-29340
660' FNL & 660' FEL (Unit A)
Section 28, T-18 South, R-35 East, NMPM

17 ½" Hole; Set 13 3/8" J-55 Csg @ 490' Cemented w/475 Sx.
Cement circulated to surface

Drilled: 7/1985

Bowen casing bowl/patch w/cementing ports Set 4 ½" 10.5# J-55 tieback casing @ 1,375'. Cement with sufficient cement to circulate to surface.

TOC @ 1,750' by T.S.

2 3/8" 4.7 # J-55 IPC tubing set in a Baker AD-1 Packer @ 4,422'

11" Hole; Set 8 5/8" K-55 csg @ 3,910' Cemented w/1700 sx. Cement circulated to surface

Queen Perforations: 4,472'-4,488'

7 7/8" Hole; Set 4 ½" K-55 csg @ 4,652' Cemented w/480 sx.
TOC @ 1,750 by T.S.

Set 60 Sx. cement plug @ 4,652'-4,743'

Set 50 Sx. cement plug @ 5,542'

Set 55 Sx. cement plug @ 7,114'

Set 55 Sx. cement plug @ 8,784'

Set 55 Sx. cement plug @ 9,865'

T.D. 10,300

INJECTION WELL DATA SHEET

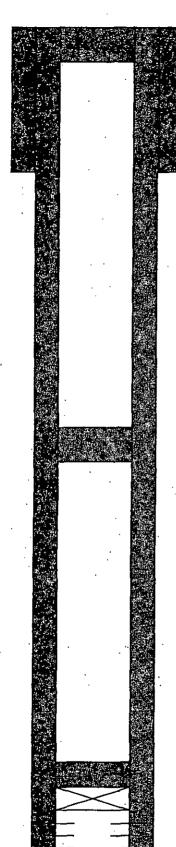
·	•	•
OPERATOR: Sundown Energy, LP		
WELL NAME & NUMBER: Arco 28 State No. 2 (API No. 3	30-025-29526)	
WELL LOCATION: 330' FNL & 1650' FEL	B 28	
FOOTAGE LOCATION	UNIT LETTER SECT	TON TOWNSHIP RANGE
<u>WELLBORE SCHEMATIC</u>		CRUCTION DATA De Casing
See Attached Wellbore Schematic	Hole Size: 11"	Casing Size: <u>8 5/8" @ 475'</u>
	Cemented with: 300 Sx.	ft ³
	Top of Cement: Surface	Method Determined: Circulated
	Intermed	liate Casing
	Hole Size:	Casing Size:
	Cemented with:	ft ³
	Top of Cement:	Method Determined:
	Produc	tion Casing
	Hole Size: 7 7/8"	Casing Size: 4 ½" @ 4,559'
	Cement with: 1250 Sx.	orft ³
	Top of Cement: Surface	Method Determined: _Circulate
	Total Depth: 4,560'	
	Injection	Interval

Perforated Interval -4,480'-4,483'

INJECTION WELL DATA SHEET

Tubing	Size:	2 3/8" 4.7# J-55	Lining Material:	Internally P	lastic Coated	
Type of	f Packer:	Baker AD-1 injection pa	cker	· — — · · · · · · · · · · · · · · · · ·		
Packer	Setting Dep	th: 4,430' or within	100' of the uppermost in	jection perforat	ions	
Other 7	Type of Tub	ing/Casing Seal (if applicable):	None			
		<u>Ad</u>	ditional Data	,		•
1.	Is this a nev	v well drilled for injection:	Yes	X	No	
		hat purpose was the well originally	_			in the Queen
2.	Name of the	e Injection Formation: Q	ueen			, ,
3.	Name of Fi	eld or Pool (if applicable): R	eeves-Queen Pool (Oil-5	2070)		
4.	•	ll ever been perforated in any other cement or plug(s) used.	zone(s)? List all such pe	erforated interva	als and give pluggi	ng detail,
,	None					·
5.	Give the na in this area:	me and depths of any oil or gas zon	es underlying or overlying	ng the proposed	injection zone	
		proposed waterflood project area in	•			

Current Wellbore Configuration



Set 25 sx. cement plug 147'-Surface

Sundown Energy, LP Arco 28 State No. 2 API No. 30-025-29526 330' FNL & 1650' FEL, Unit B Section 28, T-18S, R-35E

11" Hole; Set 8 5/8" K-55 csg. @ 475'

Cemented w/300 sx.

Cement circulated to surface

Drilled:

12/1985

Plugged: 5/1997

Set 25 sx. cement plug 1,620'-1,760'

Set CIBP @ 4,400' w/25 sx. cement on top

Queen Perforations: 4,480'-4,483'

7 7/8" Hole; Set 4 1/2" K-55 csg. @ 4,559'

Cemented w/1250 Sx.

Cement circulated to surface.

T.D. 4,560'

State of New Mexico

Form C-103 Revised 1-1-89

Energy, Minerals and Natural Resources Department

District Office			•	•
DISTRICTI P.O. Box 1980, Hobbs, NM 88240	OIL CONSERVATION P.O. Box 201		WELL API NO.	
DISTRICT II P.O. Drawer DD, Artesia, NM \$8210	Santa Fe, New Mexico		30-025-29526 5. Indicate Type of Lease	
DISTRICT III 1000 Rio Brazos Rd., Aziec, NM \$7410	•		STATE X 6. Size Oil & Circ Lane No. 02-B-28-18S-35E	FEE
			V/////////////////////////////////////	
(DO NOT USE THIS FORM FOR PRO DIFFERENT RESER	ICES AND REPORTS ON WEL PPOSALS TO DRILL OR TO DEEPEN RVOIR. USE "APPLICATION FOR PEI -101) FOR SUCH PROPOSALS.)	OR PLUG BACK TO A	7. Lease Name or Unit Agreement I	dame
1. Type of Well: Oil Will Will Will [3]	OTHERA.		ARCO "28" State	
2 Name of Operator Tamarack Petroleum Co.,	Inc.		8. Well No.	
3. Address of Operator			9. Pool name or Wildcat	
500 W. Texas, Suite 148	5 Midland, TX 7970	1	Reeves (Queen)	
	50 Feet From The East	Line and330	Feet From The North	Line
Section 28	Township ISS Ru	ыве 35 E	NMPM Lea	County
	10. Elevation (Show whether	DF. RKB, RT. GR, etc.)		
II. Check NOTICE OF INT	Appropriate Box to Indicate I FENTION TO:	•	eport, or Other Data SEQUENT REPORT OF	=:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CAS	SING [
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING	OPNS. PLUG AND AB	ANDONMENT XX
PULL OR ALTER CASING		CASING TEST AND CE	EMENT YOR	
OTHER:		OTHER:		[
12. Describe Proposed or Completed Opera work) SEE RULE 1103.	tions (Clearly state all persinent details, a	nd give pertinent dates, inclu	ding estimated date of starting any proj	posed
5/6/97 Spot 25 sks 5/6/97 Spot 25 sks	BP @ 4400'. Cap w/25 s cement @ 1760' to 163 s cement from 147' to s Set Dry Hole	20'. surface.	per GDC	٠.
,	•			
	•			
. •				
•				
I bereby certify that the information above to the	se and complete to the tops of my knowledge ma	4 b=lief.		
SIGNATURE (SOUTHANDIE)	D. Muyy "	President	DATE	/13/97
างาะเดิโด๊สามมณ Charley (Gregg - SNG Well P&A Se	rvices, LLC	TELETIONE I	10 .
CLUTE STATE I'M SETTE CLAY)	/		TOTAL TOTAL	48 48 48

Proposed Wellbore Configuration

Sundown Energy, LP Arco 28 State No. 2 API No. 30-025-29526 330' FNL & 1650' FEL, Unit B Section 28, T-18S, R-35E

11" Hole; Set 8 5/8" K-55 csg. @ 475'

Drilled:

12/1985

Cemented w/300 sx.
Cement circulated to surface

2 3/8" 4.7# J-55 IPC tubing set in a Baker AD-1 packer @ 4,430'

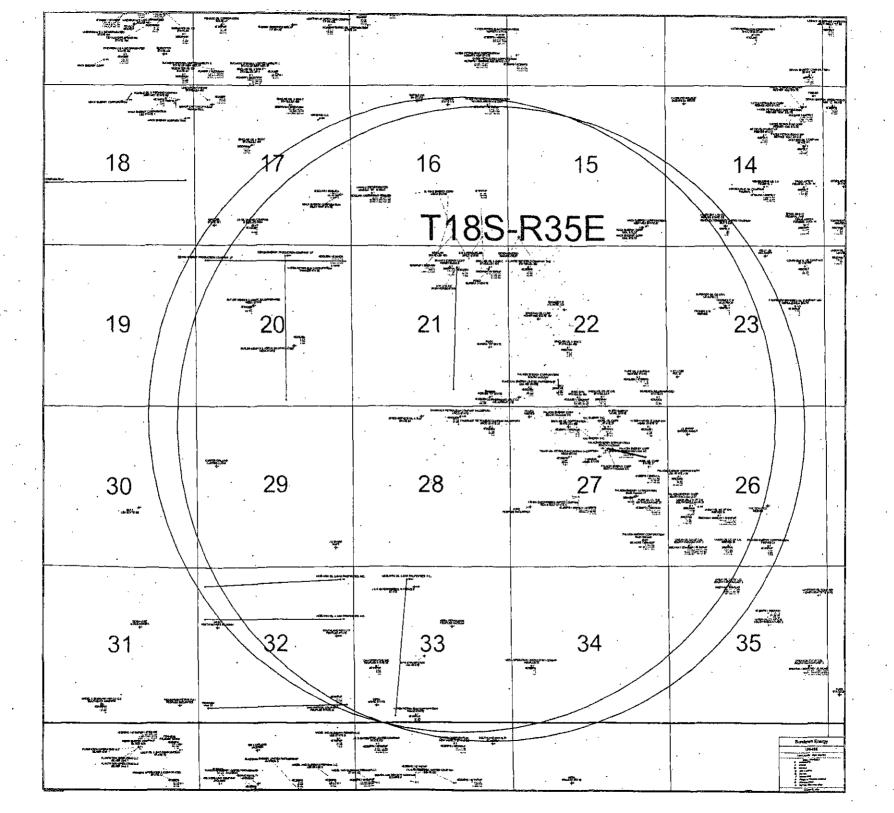
Queen Perforations: 4,480'-4,483'

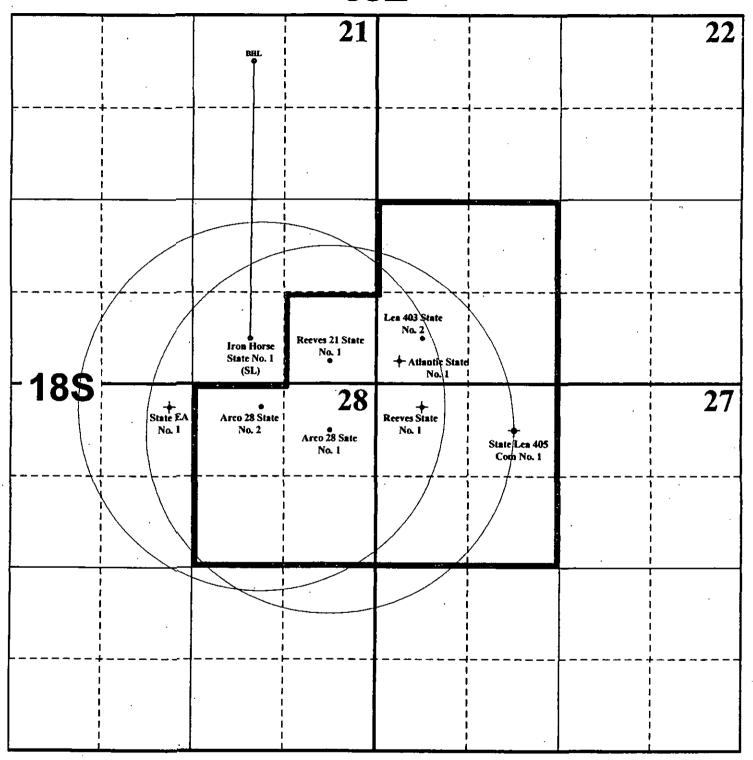
7 7/8" Hole; Set 4 1/3" K-55 csg. @ 4,559'

Cemented w/1250 Sx.

Cement circulated to surface.

T.D. 4,560'





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

Proposed Secondary
Recovery Unit Area

Sundown Energy, LP
Reeves Queen Unit Waterflood

1/2 Mile AOR Map

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

				to the			110		Э л.	43								Ž.				2.0					*			
30-025-3051	4 Sundown Energy, LP	Reeves 21 State	1	P	Active	330	3 6	360'	E	- :	- 1	88	35E	May-89	4,585	14 3/4"	11 3/4	1,761	950	Surface	Circ.	11"	8 5/8"	3,052	600	Surface	Circ.	4,480'-4,476' Per	5 1/2 csg. sta	e cemented. 1st-550 sa
		 	-	Ε-			7		7	7		[μ	Γ.		Γ	7 7/8"	5 1/2"	4,565'	1010	1,417	Calc.	Queen		V Tool @ 3,118
	<u> </u>	 	1-							士			\pm	-		<u> </u>		1_							Ė		<u> </u>			
30-025-3744	2 Pogo Producing Co. LL	C Eureka 21 State	2	P	ND	1980	8 (960'	E	4	21 1	88	35E	APD	expired '	1/11/08.	Well Ne	ver Dri	lled_	L	μ_	⊢			\vdash					
30-025-3819	S Oxy USA, Inc.	Iron Horse State	1	P.	Active	680	6 1	830	ET	<u> </u>	21 1	185	36€	Dec-08	8,220	17 1/2	13 3/8	528	450	Surface	Circ.	12 1/4	9 5/6"	3,150	1,100	Surface	Circ.	4,777-8,077	Total Depth: 8	220' MD. 4,462' TVD.
			_	[Ξ	BHL	4611	8 1	777	E	3 []	27 1	183	35E		MD.	-		ļ	<u> </u>	-	Ę	7 7/8*	5 1/2*	8,200	1050	3,520	CBL	Quéen		
30-025-0312	7 Sundown Energy, LP	Lea 403 State	2	P	Active	660	S (360'	w l	v :	22 1	188	35E	May-58	11,978	17 1/4	13 3/8	332	400	Surface	Circ.	12 1/4	9 5/8"	4,000	1,650	460	Well File	4,432'-4,450' Per	. Well Drilled to	11,976' in 1958 & PA'd
	1100	7	100	<u> </u>	7 4001 7			-200		75.0			~		1000	401	25.0	1					4 1/2"			Surface		2 4 52 7 8 1 2 2 2 2 2		od in January, 1990.
1958-Well P	ugged: 25 Sx11,913-11	978 30 8X -8,321 -6	,400	100 8x.	7,100-7	2/6 2 	3 SX. /	,008-/	7,134	25 67	<u>(-3,83</u>	<u>141~4,0</u> 	w c	us a Put	<u>ed a 540.</u>	DI 44U	<u> </u>	45-4/	5 25 t	3x270-3 T	32 . v	Vert IXE-C	NACIAG II	1 1990 gr grim	10 4,0	SUUT. SEC.4	1/2 casung	02 4,567 & Ceme	med W/128U SX.	Queen Completion
30-025-2348	C Leatherwood Drilling C	o. Atlantic State	1	Ory	PA.	330	S	330	W	1	2 1	188	35E	Apr-70	4,975	12"	8 5/8"	378	275	Surface	Circ.								Dry Hole, PA	Schemetic Atlached.
30.025.0314	5 Pride Energy Compan	Siete Las 405 Com	1	╁ᡖ╴	PA	660	 1	960	wl	<u>. </u>	27 1 1	188	35E	Dec-57	11.783	16 1/2	13 3/8	325	400	Surface	Circ.	12 1/4	9 5/8"	4990	1900	30'	Well File		PA Schematic	Affected
30-020-001-0	· Has Eller y Sampail				7.13		~															8 3/4"		11,783	300	8,090	Well File			
30-025-3055	O Hondo Oll & Gas Co.	Reeves State	1	Diry	PA	330	N e	360'	wb	5. :	27 1	188	35E	Mar-89	5,590	12 1/4	8 5/8"	458	300	Surface	Circ.	7.7/8"	5 1/2"	1,885	450	596	Well File		Dry Hole. PA	Schematic Attached.
		State = 43	1	Div	PA	200	1	240		I			285	Mar 99	4 790	12.1/8	9.5/0	2701	275	Surface	Cian			-	-		ļ		Dr. Hele B4	Schematic Attached
30-025-3031	5 Oxy USA, Inc.	State EA	11	LVIY	PA	130	NIL	310	44 1 4	٠.	69 []	169	30E	MAI-00	1,700	14 1/4	0.040	1 3/6	2/0	Journace	II CIIC.	<u>l</u>				<u> </u>	ــــــــــــــــــــــــــــــــــــــ	L	IDIY HOLE, FA	Schement virgoned

25 Sx. surface

Pride Energy Company
State Lea 405 Com No. 1
API No. 30-025-03145
660' FNL & 1980' FWL (Unit C)
Section 27, T-18 South, R-35 East, NMPM



15 1/2" Hole; Set 13 3/8" Csg @ 325' Cemented w/400 Sx.

Cement circulated to Surface

Drilled: 12/1957 Plugged: 1/1971

Perforations 4,652'-4,777' Squeezed w/200 sx. Perforations 4,753'-4,843'

12 1/2" Hole; Set 9 5/8" Csg @ 4,990' Cemented w/1900 sx. TOC @ 31' by Well File

7" casing cut & pulled @ 5,100'. Cement retainer @ 4,956'. Set 25 Sx. cement plug 4,990'-5,100'

Perforations 6,134'-6,151'
Perforations 6,334'-6,340' squeezed w/75 sx.
Perforations 6,368'-6,374'
Perforations @ 6,494 squeezed w/75 sx.

TOC @ 8,090' (Well File)

Set 40 sx. cement plug 8,450'-8,681'

Bone Spring Perforations: 8,649'-8,681'

DV Tool @ 8,812'

Set CIBP @ 11,602 w/6' cement on top Devonian Perforations: 11,686'-11,722'

Devonian Perforations: 11,769'-11,774'. Squeezed w/ 125 Sx.

8 3/4" Hole; Set 7" Csg. @ 11,783'
1st. Stage-150 Sx. 2nd Stage-150 Sx.

DV Tool @ 8,812' TOC @ 8,090' by Well File



		Form C-103
DISTRIBUTION		Supersedes Old C-102 and C-103
SANTA FE	NEW MEXICO OIL CONSERVATION C	
FILE		
U.S.G.S.		5a. Indicate Type of Lease
LAND OFFICE		State XX Fee,
OPERATOR	} ·	5. State Oil & Gas Lease No.
· · · · · · · · · · · · · · · · · · ·	<u> </u>	E-1635
	RY NOTICES AND REPORTS ON WELLS DPOBALS TO DRILL OR TO GEEPEN OR PLUE BACK TO A DIFFER 100 FOR PERMIT —" (FORM C-101) FOR BUCH PROPOSALS.)	RENT RESERVOIR.
I. OIL X GAS WELL	OTHER•	7. Unit Agreement Name
Name of Operator	·	8. Form of Lease Name
NILLIAM G. McCOY		State "405"
Address of Operator		9. Well No.
P.O. Box 1352, R	oswell, New Mexico 88201	1
. Location of Well		10. Field and Pool, or Wildcat
UNIT LETTERC,	660 PEET FROM THE North LINE AND	1980 Field Wildcat
•	•	
THE West LINE, SECTE	ON <u>27</u> TOWNSHIP 18-S RANGE	35-E AMPM. (())
	WWW = 21 1 1 22 22 22	
	15. Elevation (Show whether DF, RT, GR, et	
	3893' GL	Lea
Check	Appropriate Box To Indicate Nature of No	tice, Report or Other Data
NOTICE OF I	TENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON REMEDIAL WOR	ALTERING CASINE
TEMPORARILY ASANDON	COMMENCE DRI	ILLING OPHS. PLUG AND ABANDONMENT, X
· · · · · · · · · · · · · · · · · · ·	— I	
PULL OR ALTER CASING	CHANGE PLANS CASING TEST A	NO CEMBAS CAL
PULL OR ALTER CABING	CHANGE PLANS CASING TEST A	AND CEMENT JOB
OTHER	<u> </u>	AND CEMENT JOB
OTHER	ФТИЕЯ	
OTHER	ФТИЕЯ	
7. Describe Proposed or Completed On work) see RULE 1 fos. Well plugged and 1971. 25 sx plu	abandoned on verbal permission fi	ertinent dates, including estimated date of starting any proposed rom Mr. Joe Ramey on January 16, at 4956'. 25 sx plug at surface.
other 7. Describe Proposed or Completed On work) see Rule 1 fos. Well plugged and 1971. 25 sx plu	abandoned on verbal permission fig from 5100' to 4990'. Retainer	ertinent dates, including estimated date of starting any proposed rom Mr. Joe Ramey on January 16, at 4956'. 25 sx plug at surface.
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T. Describe Proposed or Completed On work) see Rule 1008. Well plugged and 1971. 25 sx plu Erected dry hole	abandoned on verbal permission fig from 5100' to 4990'. Retainer a marker. Cleaned location. Well	rom Mr. Joe Ramey on January 16, at 4956'. 25 sx plug at surface. ready for inspection.
oTHER 17. Describe Proposed or Completed On work) SEE RULE 1903. Well plugged and 1971. 25 sx plu Erected dry hole	abandoned on verbal permission fig from 5100' to 4990'. Retainer	rom Mr. Joe Ramey on January 16, at 4956'. 25 sx plug at surface. ready for inspection.
other 17. Describe Proposed or Completed On work) SEE RULE 1908. Well plugged and 1971. 25 sx plu Erected dry hole	abandoned on verbal permission fig from 5100' to 4990'. Retainer a marker. Cleaned location. Well	rom Mr. Joe Ramey on January 16, at 4956'. 25 sx plug at surface. ready for inspection.
Well plugged and 1971. 25 sx plu Erected dry hole	abandoned on verbal permission fig from 5100' to 4990'. Retainer a marker. Cleaned location. Well	rom Mr. Joe Ramey on January 16, at 4956'. 25 sx plug at surface. ready for inspection.

CONDITION

NO. OF COPIES RECEIVED			Form C-103
DISTRIBUTION			Supersedes Old C-102 and C-103
SANTA FE	NEW MEXICO OIL CONS	ERVATION COMMISSION	Effective 1-65
FILE		_	
U.5.G.S.			5a. Indicate Type of Lease
LAND OFFICE			State Fee
OPERATOR	J ·	•	5, State Oil & Gan Lease No. E-1635
		·	2-1055
DO NOT USE THIS FORM FOR PRO	Y NOTICES AND REPORTS ON PROSALS TO DRILL ON TO DEEPEN OF PLUG B	WELLS ACK TO A DIFFERENT REBERYOIR. IN PROPOSALS.)	
I. GIL X SAB WELL WELL	отнея-		7. Unit Agreement Name
2. Name of Operator WILLIAM G. McCOY			8. Form or Lease Name State "405"
P. O. BOX 1352,	ROSWELL, NEW MEXICO 8820	1	9. Well No.
4. Location of Well C	660 North	1980	10. Field and Pool, or Wildeat Field Wildcat
West	27 1	LINE AND FEET PE	
THE LINE, SECTION	TOWNSHIP	8-S 35-E	··· AllIIIIIIIIIIIIII
omminimum.	15. Elevation (Show whether	DF. RT. GR. etc.)	12. County
	3893' GL	21, 112, 211, 2121,	Lea
16. Chark	Appropriate Por To Indiana N		Oak oa Daar
	Appropriate Box To Indicate N ITENTION TO:	-	ENT REPORT OF:
PERFORM REMEDIAL WORK	PLUS AND ABANDON	REMEDIAL WORK	ALTERING CASING
TEMPORARILY ADANDON	Prof. With Manuages	COMMENCE DRILLING OPHS.	PLUG AND ABANDONMENT
PULL OR AUTER CASING	CHANGE PLANS	CARING TEST AND CEMENT JOB	
		OTHER	L)
OTHER			
work) SEE RULE 1 fos.			ling estimated date of starting any proposed
1970. 7" casing 75 sx cement. Per slight show gas at 6145-51'. Attemp plug at 5100' and 4753-55', 4775-77 with 50 sx. Test out. Perforated communicated. Per	-work commenced with very run and set on old casi- erforated 6334-40', 6368 and drilling mud. Squee oted to acidize. Well could 4990'. Set retainer a 7'. Attempted to acidizated perforations. Still 4753-55, 4775-77. Attempted 4834-36, 4841-476. to P&A.	ng at 5100'. Perforat -74'. Acidized with 2 zed 75 sx at 6334-40. ommunicated. Pulled 7 t 4956'. Perforated 4 e. Perforations commu communication. Squee mpted to acidize perfo	ted 6494'. Squeezed 2500 gals. Swabbed Perforated 6134-40', " casing. Set 25 sx 1652-54', 4670-72', Initated. Squeezed ezed 150 sx. Drilled prations. Perforations
			•
	·		
· ·	•		
		•	
18 Thombs and the state of the			
18. I hereby certify that the information	sove is true and complete to the best o	i my knowiedge and belief.	
310NED WAME CA	71742	Operator	DATE 2/11/71
(Linds			FFR 15 1971

DITIONS O

ANY:

NO. OF COPIES RECEIVED		Rorm C-103 Supersedes Old
DISTRIBUTION SANTA FE	MEM MENICO OIL CONSERVATION COMMISSION	C-102 and C-103
	NEW MEXICO OIL CONSERVATION COMMISSION	Effective 14-65
FILE	SEP 9. 11 25 AM '65	5a. Indicate Type of Lease
U.s.G.s.	- J. 11 23 121 00	State Type of Lease
LAND OFFICE		
OPERATOR		5. State Oil & Gas Lease No.
	· · · · · · · · · · · · · · · · · · ·	2-1435
SUN LOO HOT USE THIS FORM FOR	DRY NOTICES AND REPORTS ON WELLS PROPOSALS TO ORILL OR TO DEEPEN OR PLUE SACK TO A DIFFERENT RESERVOIR. CATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)	
•	Plus and Ahanden	7. Unit Agreement Name
Name of Operator	VITAL	8. Form or Lease Name
Address of Operator	Odl & Gas Gempany	State Les 405
-	ex 1920, Hobbs, New Mexico	1
Location of Well	445	10. Field and Paol, or Wildcat
UNIT ERTTER	660 FEET FROM THE HOTTH LINE AND 1980 FEET PRO	THE PROPERTY OF
THE Work	CTION 27 TOWNSHIP 188 RANGE 35E NMPM	
animinininininininininininininininininin	15. Elevation (Show whether DF, RT, GR, etc.)	12. County
	38931 @	res
ULL OR ALTER CASING	CHANGE PLANS CASING TEST AND CEMENT JOB	
OTHER	Operations (Clearly state all persinent details, and give persinent dates, including	g estimated date of starting any propose
Describe Proposed or Completed work) SEE RULE 1703. TO 11,7831, PBTD 87	Operations (Clearly state all pertinent details, and give pertinent dates, including	ngs Perfs. 8649-8661.º as 9-5/8*0D ong 0 4990° as o commit in cellar.
Describe Proposed or Completed work) SEE RULE 103. TD 11,783 , PBTD 87 8-20-65 to 8-24-65. 8-25-65 to 8-31-65.	Operations (Clearly state all pertinent details, and give pertinent dates, including 716'. Spot 40 sacks coment 8,50-845' over Bene Spring fill hele w/mmd. Shoot and pull 5100' of 7"(D casing. Spot 60 sacks coment 4970-5120' over bottom of over top of 7"(D casing 6 5100'. Spot 10 sacks Install regulation marker, clean and level loos	ngs Perfs. 8649-8661.º as 9-5/8*0D ong 6 4990° as o commit in cellar.
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P. Describe Proposed or Completed work) SEE RULE 103. TD 11,783', PBTD 87 8-20-65 to 8-24-65. 8-25-65 to 8-31-65. 9-1-65 to 9-3-65.	Operations (Clearly state all pertinent details, and give pertinent dates, including 716'. Spot 40 sacks coment 84,50-8645' over Bone Spring fill hele w/mmd. Shoot and pull 5100' of 7°CD easing. Spot 60 sacks coment 4970-5120' over bottom of over top of 7°CD easing 6 5100'. Spot 10 sacks Install regulation marker, elem and level locating 4 Abandened 9-3-65.	ngs Perfs. 8649-8661. m 9-5/8*0D ong 0 4990' m s commt in cellar.
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7. Describe Proposed or Completed work) SEE RULE 103. TD 11,783 , PBTD 87 8-20-65 to 8-24-65. 8-25-65 to 8-31-65. 9-1-65 to 9-3-65.	Operations (Clearly state all pertinent details, and give pertinent dates, including 716'. Spot 40 sacks coment 84,50-8645' over Bone Spring fill hele w/mmd. Shoot and pull 5100' of 7°CD easing. Spot 60 sacks coment 4970-5120' over bottom of over top of 7°CD easing 6 5100'. Spot 10 sacks Install regulation marker, elem and level locating 4 Abandened 9-3-65.	ge Perfs. 8649-8661. as 9-5/8************************************
Describe Proposed or Completed work) SEE RULE 103. TO 11,783', PBTO 87 8-20-65 to 8-24-65. 8-25-65 to 8-31-65. 9-1-65 to 9-3-65.	Operations (Clearly state all pertinent details, and give pertinent dates, including 716'. Spot 40 sacks coment 84,50-8645' over Bone Spring fill hele w/mmd. Shoot and pull 5100' of 7°CD easing. Spot 60 sacks coment 4970-5120' over bottom of over top of 7°CD easing 6 5100'. Spot 10 sacks Install regulation marker, elem and level locating 4 Abandened 9-3-65.	ge Perfs. 8649-8661 and 9-5/8**(D) one 0 4990' and content in collar. Ition. Completed plugge
Describe Proposed or Completed work) SEE RULE 103. ID 11,7831, PBID 87 8-20-65 to 8-24-65. 8-25-65 to 8-31-65. 9-1-65 to 9-3-65.	Operations (Clearly state all pertinent details, and give pertinent dates, including 716'. Spot 40 sacks coment 84,50-8645' over Bone Spring fill hele w/mmd. Shoot and pull 5100' of 7°CD easing. Spot 60 sacks coment 4970-5120' over bottom of over top of 7°CD easing 6 5100'. Spot 10 sacks Install regulation marker, elem and level locating 4 Abandened 9-3-65.	ge Perfs. 8649-8661. as 9-5/8************************************

F HOMES ST	COPIES CECEIVED	<u></u>					
PILE		NE	W MEXICO OIL	CONSER	VATION C	MOISSIMMO	FORM C-103
LAND OFFIC						· • · • · · · · · · · · · · · · · · · ·	(Řev 3-55)
18 AHSPOHT	0.4.0		ISCELLANEO	US REP	ORTS ON	WELLS	_ 000
OPERATOR	OFFICE	(Submit t	o appropriate Dist	rict Office	as per Comi	nission Rule 1	106)
Name of Co				lress		PA PA	2 11
	eclair Oil &	— 	·			, Hobbs,	
Lease	ate Lea 405	Wel	Il No. Unit Lett	er Section	Township	a R	ange 35B
Date Work I	erformed	South Vacu	um Devenian		County	Lea	
		THIS IS A	REPORT OF: (Che	ck appropria	te block)		
Beginn	ning Drilling Operation	s Casin	g Test and Cement]	ob [Other (Ex	cplain):	•
Pluggi		. Remed				·····	·
Detailed acc	count of work done, as	ture and quantity of n	naterials used, and	results obtai	ined.		
Witnessed b	-62 11596FB -	Perforated holes. Ran holes. Ran Acidized per Min Press 2 Thg & Packet well on pur Bone Spring and 44 bhls ending \$100 Bone Spring	# 2-3/8" the residence of the second	# Zone # Pac #/3000 to 3.6 3/8 th water i . GOR P plugs	BEA9-64 Exer to gals a BPM, 10 ig & pac bbls n in 24 hr 909 to ging bac	# 8668-8 8630. Heid. Max Heid.	1 w/52 1/2" Press 4600, 3000, Pulled 05 and placed pravity oil
D F Elex. 389;		11783	PBTD 11738PB		11686-	de days	
Tubing Diam							Completion Date
2-3,	18	Tubing Depth		tring Diamet		Oil String I	
Perforated L	terval(a)	Tubing Depth					
Perforated I	/8 L1686-11722	Tubing Depth	Oil S	tring Diamet	tion(s)		
Perforated L	/8 L1686-11722	Tubing Depth	Oil S	tring Diamet 70 ucing Forma Dovonia	tion(s)		
Perforated I	/8 hterval(s) L168611722 hterval	Tubing Depth 11257	Produ	tring Diamet 70 ucing Forma Devonic	tion(s)	Oil String [83
Perforated Is Open Hole Is	Date of	Tubing Depth 11257 Oil Production BPD	Oil S	ucing Forma Dvonis RKOVER Water P	tion(s)		Gas Well Potential
Perforated I	Date of Test 1/25/62	Oil Production BPD	Produ	ucing Forma Devonic RKOVER Water P B	tion(s)	Oil String [Gas Well Potential
Perforated Is Open Hole Is Test Before	Date of Test Devenien 201 4/25/62 Bone spring	Tubing Depth 11257 Oil Production BPD	Produ RESULTS OF WO Gas Production MCFPD	ucing Forma Devonic RKOVER Water P B	tion(s)	Oil String	Gas Well Potential
Perforated Is Open Hole Is Test Before Workover After	Date of Test Devenien 201 4/25/62 Bone Spring 5/18/62	Oil Production BPD Ozone	Produ RESULTS OF WO Gas Production MCFPD 6	ucing Forma Dovonie RKOVER Water P B	tion(s) toduction PD 200	GOR Cubic feet/Bbl O 909 ormation given a	Gas Well Potential
Perforated Is Open Hole Is Test Before Workover After	Date of Test Description Date of Test Devenien 209 4/25/62 Bone Spring 5/18/62	Oil Production BPD Cone 92	Produ RESULTS OF WO Gas Production MCFPD 6	ucing Forma Devonic RKOVER Water P B ereby certify the best of r	tion(s) roduction PD 200 44	GOR Cubic feet/Bbl O 909 ormation given a	Gas Well Potential MCFPD
Perforated Is Open Hole Is Test Before Workover After Workover Approved by	Date of Test Description Date of Test Devenien 209 4/25/62 Bone Spring 5/18/62	Oil Production BPD Cone 92	Produ RESULTS OF WO Gas Production MCFPD O 84	water PB ereby certify the best of religions.	roduction PD that the infony knowledge	GOR Cubic feet/Bbl O 909 pormation given a	Gas Well Potential MCFPD
Perforated Is Open Hole Is Test Before Workover After Workover	Date of Test Description Date of Test Devenien 209 4/25/62 Bone Spring 5/18/62	Oil Production BPD Cone 92	Produ RESULTS OF WO Gas Production MCFPD 84 I h to Nan	water PB ereby certify the best of resistance.	roduction PD 800	GOR Cubic feet/Bbl O 909 ormation given a	Gas Well Potential MCFPD

SANTAFE PILE U.S.O.B. LAND OFFICE	HER RECEIVED		W MEXICO				linna	FORM C-103 (Rev 3-55)
TRANSPORTER PROGATION OF	OIL GAS		MISCELLA				WELL?	TO DEC
Name of Com	nelair 011	& Gas Compa	NDY	Addre		et Broad	my,Hobb	s. New Mexico
Lease	ate Lea 405		ell No. Uni			Township	R	35E
Date Work Per		Pool	factor De	mont o	1-0	County.	· · · · · · · · · · · · · · · · · · ·	3/4
			REPORT OF:			e block)	 -	
l –	g Drilling Operation	a Casi	ng Test and Ce	ment Joi	ь [Other (Exp	lain):	· · · · · · · · · · · · · · · · · · ·
Plugging			edial Work				· · · · · · · · · · · · · · · · · · ·	
5	unt of work done, as	, ,-		•				r. Pulled Mark coment. Mar.
4-11-4 4-12-6 4-13-6 4-15-6 4-17-6 4-23-6 4-28-6	Press 600 2 Jet perfo w/2 holes 2 Ran 2" th gals meid inj rate 2 Swabbed a 2 Pulled th 2 Pumped 60 2 Pumped 12 0n 24 hr fermation in prepar	rated Devorated Devorated Devorated Devorated Part Part Part Part Part Part Part Part	eker to 1 pall seal PSIP 38 198 bbls and pack extion wa reation wa cost endi no cil,	1470. ers. 00 f. form er wi ter s ater ng 6:	Acida Max P. Ation 1 Ith can ind no and m 100 AM low gas to B	94, 1170 ised per ress 590 water an sing pus wil. s oil. 4-28-62 s. Fina one Spri	0-11708 fs 11686 Of, Min d no eil p to 500 p pumped i Report ngs Zome	& 11716-11722 -11722 w/6000 Press 4000#, in 10 hrs. 0'. 1200 bbls . Well shut
Witnessed by	Y.R. Black		Position FOT em	AR		omp [®] Sincl	air Oil	& Cas Co.
		FILL IN BELO	W FOR REME	~~~~		PORTS ONL	<u>Y</u>	
D F Elev.	7 D	11783	DRTD	781PI		Producing In	erval 11781	Completion Date
Tubing Diamer	er	Tubing Depth	•	Oil Stri	ng Diamet	er	Oil String D	Sprth
Perforated Inte	rval(s)	769-11774					 	· · · · · · · · · · · · · · · · · · ·
Open Hole Inte	rval		<u>'</u>	Produci	ing Format	ion(s)	enian	
•	Bone		RESULTS O	F WOR	KOVER			
Test	Date of Test	Oil Production BPD	Gas Produ MCFP			oduction PD	GOR Cubic feet/Bbl	Gas Vell Potential MCFPD
Before Workover	4-1-62	5	7633	I .	22	5	TOTA	
After Vorkover	4/28/62	0	0		120	Ю	0	
	OIL CONSERVAT	гіон сойміззіон		I ben to th	eby certify e best of s	that the informy knowledge.	nation given a	bove is true and complete
Approved by	11	27	-	Name				
Title				Positi	_	DIST S	DT	
Date				Comp	LOV		k Ges Cos	pany

10 Sx. surface plug

Hondo Oil & Gas Co.
Reeves State No. 1
API No. 30-025-30550
330' FNL & 660' FWL, Unit D
Section 27, T-18S, R-35E
Type Well: Dry Hole

12 1/4" Hole; 8 5/8" csg. set @ 458'

Cemented w/300 sx.

Cement circulated to surface

Drilled:

3/89

Plugged:

4/89

Perforated @ 592' & squeezed w/250 sx. Cement circulated to surface.

TOC @ 595' by T.S.

7 7/8" Hole. Set 5 ½" Csg. @ 1,885' Cemented w/450 Sx. TOC @ 595' by T.S.

Set 60 Sx. cement plug 3,024'-3,124'

Set 50 Sx. cement plug 4,370'-4,470'

Set 40 Sx. cement plug 4,950'-5,050'

Drilled 7 7/8" Hole to T.D. @ 5,590'

T.D. 5,590'

State of New Mexico

Submit 3 Copies Form C-103 Energy, ...inerals and Natural Resources Department to Appropriate Revised 1-1-89 District Office OIL CONSERVATION DIVISION DISTRICT WELL API NO. P.O. Box 1980, Hobbs, NM 88240 P.O. Box 2088 DISTRICT II Santa Fe, New Mexico 87504-2088 P.O. Drawer DD, Artesia, NM 88210 STATE X FEE DISTRICT III 1000 Rio Brazon Rd., Aziec, NM 87410 6. State Oil & Gas Lease No. SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A 7. Lease Name or Unit Agreement Name DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) Type of Well: WELL ! Mar X Reeves State 2. Name of Operator 8. Well No. Hondo Oil & Gas Company 1 3. Address of Operator 9. Pool name or Wildcat P. O. Box 2208, Roswell, NM Reeves Queen Well Location : 330 Feet From The West Feet From The 188 Section Township Range 35E **NMPM** Lea County 10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3904' GR Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK PLUG AND ABANDON **ALTERING CASING** REMEDIAL WORK TEMPORARILY ABANDON **CHANGE PLANS** COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT **PULL OR ALTER CASING** CASING TEST AND CEMENT JOB OTHER: OTHER: Plugged back & ran casing 12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103. Drilled 7 7/8" hole to 5590' (TD). Reached TD 4/4/89. Spotted 40 sx. Class "C" plug from 5050-4950'. Spotted 50 sx. Class "C" plug from 4470-4370'. Spotted 60 sx. cement plug from 3124-3024'. Ran 43 jts. 5 1/2" 17# Lt&C J-55 casing. Float shoe @ 1885'. Set ECP @ 1837'. Set ECP @ 1786'. DV tool @ 1778' (PBTD). Ran 15 centralizers, every other joint. Cement with 350 sx. Class "C" w/2% CC + 100 sx. Thixset. Plug down @ 12:30 p.m. 4/5/89. Cement bridged and didn't circulate. Ran temperature survey. TOC @ 595'. I hereby certify that the information above is true and complete to the best of my knowledge and belief. mus Petroleum Engineer __ DATE <u>4/13/89</u> SKINATURE TYPE OR FRENT NAME

(This space for State Use) ORIGINAL SIGNED BY JURKY SEXTON DISTRICT I SUPERVISOR

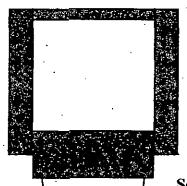
APR 1 8 1989

CONDITIONS OF APPROVAL, IF ANY:

to Appropriate District Office	Energy, A rals and	Natural Resources Department	•	Form C-103 Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs, NM 88240		VATION DIVISION Box 2088	WELL API NO.	(2 = 2 = 2 = 2
DISTRICT II		Mexico 87504-2088)-025-30532
P.O. Drawer DD, Artesia, NM \$8210			5. Indicate Type	STATE X FEE
DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410	•	•	6. State Oil & Gr	
		·	E-1635	
SUNDRY NOT USE THIS FORM FOR PE	TICES AND REPORTS	ON WELLS		
DIFFERENT RESE	ERVOIR. USE "APPLICATIO C-101) FOR SUCH PROPOS	N FOR PERMIT"	7. Lease Name of	r Unit Agreement Name
1. Type of Well:			_	• •
ABT X ABT	опел		Reeves St	tate
2. Name of Operator	,		8. Well No.	·
Hondo Oil & Gas Comp 1. Address of Operator	any	·	9. Pool name or 1	Wilder
P. O. Box 2208, Rosw	rell. NM 88202	• •	1 -	
4. Well Location	<u> </u>		Reeves O	ueen
Unit Letter D: 33	O Peet From The 1	North Line and 660	Ped Proc	n The <u>West</u> Line
Section 27	Township 188	5 Range 35E	NMPM	Lea County
	10. Elevation (Si	now whether DF, RKB, RT, GR, etc.)		
		3904' GR		<i>XIIIIIIIIIII</i>
NOTICE OF IN		Indicate Nature of Notice, F	Report, or Othe SSEQUENT F	
NOTICE OF III	TENTION TO.	500	SOCIOENT P	TEFUNIUF:
PERFORM REMEDIAL WORK	PLUG AND ABANDO	ON REMEDIAL WORK		ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLIN	G OPNS.	PLUG AND ABANDONMENT
PULL OR ALTER CASING		CASING TEST AND C	EMENT JOB	
OTHER:	***************************************	OTHER:		<u> </u>
· C:	erforated 4 holes	s @ 592'. Squeezed wi irculated 10 sx. to s	th 250 sx.	of starting any proposed
,				
	•			•
•		•		
•				•
•		•		
I hereby certify that the information above is to	run and complete to the best of my l	mowindge and belief.		
EKONATURA E.Z. BILL	1	ma Petroleum	Engineer	DATE <u>4/21/89</u>
	J		,	TELEPLICKE NO.
TYPE OR PROIT NAME				1114 1474 147

OIL'& GAS INSPECTOR

JUL 2 1 1989



10 Sx. surface plug

Oxy USA, Inc.
State EA No. 1
API No. 30-025-30315
330' FNL & 2310' FWL, Unit C
Section 28, T-18S, R-35E
Type Well: Dry Hole

12 1/4" Hole; 8 5/8" csg. set @ 378'

Cemented w/275 sx.

Cement circulated to surface

Drilled:

4/88

Plugged:

4/88

Set 27 Sx. cement plug 328'-428'



Set 26 Sx. cement plug 1,800'-1,900' (Top of Salt)



Set 26 Sx. cement plug 3,100'-3,200' (Base of Salt)

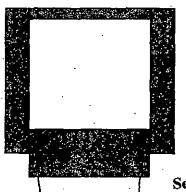


Set 26 Sx. cement plug 4,416'-4,516'

Drilled 7 7/8" Hole to T.D. @ 4,780'

	·	
##F E0PIES PECET-E0	•	Form C -103
DISTRIBUTION		Surersedes Old C-102 and C-103
SANTA PE	NEW MEXICO OIL CONSERVATION COMMISSION	Eliective 14-65
FILE	•	· · · · · · · · · · · · · · · · · · ·
U.S.G.S.		50. maicair , ype of Lease
LAND OFFICE		Sime S. Fee
OPERATOR	•	2. State Cir & Cas Lease No.
·		А 4096
SUUMA:	V MOTICES AND DEBODES ON WELLS	omministististististististististististististi
100 MOL MAK INIZ LOAT: 1C4 b401	Y NOTICES AND REPORTS ON WELLS FOR A STORAGE OF THE PLUE BACK TO A DIFFERENT RESERVOIR.	
097	Ga FOR PERSON IFORM C-101) FOR SUCH PROPOSALS.	1. Unit Agreement frame
****		7. On Adjust and Addition
Nume of Cherotor	07468-	
•	<i>,</i> ,	B, a cam or Lease tidme
OXY USA Inc.		State EA
. Address of Operator	•	9. Well No.
P. O. Box 50250, M	idland, TX 79710	1 -
. Location of Well		10. Field and Pool, or Asiced
DEST CETTERC3	30 PEET FROM THE NORTH LINE AND 2310 PEET FR	Reeves (Queen) .
	CINC AND	
THE West LINE SECTION	n 28 10wnamir 18S RANGE 35E MM	
THE CIME, SECTION	Mange Township RANGE JJL MM	
ammininini	15. Elevation (Show whether DF, RT, GR, etc.)	12. County
		_ /////////
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3915.6 GR	Lea ())))))
Check A	appropriate Box To Indicate Nature of Notice, Report of (Other Data
NOTICE OF IN		NT REPORT OF:
	,	•
PERFORM SEMEDIAL WORK	PLUG AND ABANDON RELIEDIAL WORK	ALTERING CASING
TEMPORABILY ABANDON		——————————————————————————————————————
	COMMENCE DRILLING OPHS.	PLUS AND ABANDONMENT
PULL OR ALTER CASING	CHANGE PLANS [] CASING TEST AND CEMENT JOE []	
	OTHER	
OTHER		
7. Describe Francisco Completes Ope	escusona (Ciearly state all persinent details, and give pertinent dates, includ	in a estimated date of statting any proposed
WORLD SEE AULE 1103.		
,		
T.D. of 4780' Lime	& Dolomite. Plugged and abandoned. Drilled a	7 7/8" hole from 378' -
	n Lime & Dolomite and after receiving verbal a	
	obbs, NM, this well was P & A'd in the followi	
Sexuon Winner In H	obos, iwi, dits well was r a A d in the following	ing mention.
1: Set 26 sx	. CL. C cement plug @ 4516'-4416' across Queen	
	. CL. C cement plug @ 3200'-3100' across base	
	. CL. C cement plug @ 1900'-1800' across top o	
	. CL. C cement plug @ 428'- 328' 1/2 in & 1/2	
		out of 5 5 to cass. The
5. Set 10 sx	. CL. C cement plug 0 30' to surface.	•
Set a 4" Dry Hole I	Marker 4' above ground to designate P & A loca	rion
•	·	
	•	, •
•	·	•
		·
E, I necesy certify that the information .	scove is true and complete to the best of my knowledge and belief.	
0111	•	, *
111 Vatodars	Dist. Oper. Mar Prod.	4-13-88
	Dist. Oper. Mgr Prod.	00 T T T T T T T T T T T T T T T T T T
	1.77/1/ Comment of the state of	7
	OIL & CAS INSTECTO	AUG 29'88

DITIONS OF APPROVAL.



10 Sx. surface plug

Leatherwood Drilling Co.
Atlantic State No. 1
API No. 30-025-23480
330' FSL & 330' FWL, Unit M
Section 22, T-18S, R-35E
Type Well: Dry Hole

12" Hole; 8 5/8" csg. set @ 378' Cemented w/275 sx. Cement circulated to surface

Drilled: 4/70 Plugged: 4/70

Set 25 Sx. cement plug 350'-475'

Set 25 Sx. cement plug 1,800'-1,925' (Top of Salt)

Set 25 Sx. cement plug 2,850'-2,975' (Base of Salt)



Drilled 6 3/4" Hole to T.D. @ 4,975'

DETRIBUTION NEW MEXICO DIL CONSERVATION COMMISSION St. Indicate Type of Lense File LAND OFFICE OPERATOR SUNDRY NOTICES AND REPORTS ON WELLS SUNDRY NOTICES AND REPORTS ON WELLS OPERATOR SUBJECT OF SUNDRY NOTICES AND REPORTS ON WELLS SUBJECT OF SUBJECT ON THE SUBJECT OF SUBJECT ON THE SUBJECT OF SUBJ	STENED	-cuy	Agent	DATE 4-2/-/U
SATTAPE SALTAPE	2/15	R.		A_27_70
SANTA FE NEW MEXICO OIL CONSERVATION COMMISSION C-102 and C-103 C-103 C-104 C-105	18. I hereby cartifu than the tof-	ormation shows is true and o	omplete to the best of my knowledge and helinf.	
SANTA FE NEW MEXICO OIL CONSERVATION COMMISSION C-102 and C-103 C-103 C-104 and C-105 C-105				
SANTA FE NEW MEXICO OIL CONSERVATION COMMISSION C-102 and C-103 C-103 C-104 and C-105 C-105	seary 1			
SANTA FE FILE U.9.0.15. LAND OFFICE OPERATOR SUNDRY NOTICES AND REPORTS ON WELLS (OD NOW USE THIS PROPERTION FOR PERMIT - "PROPERTY PROPERTY OF SUND PROPE	to dry	before leveling a	and cleaning location.Will adv	ise when location is
SANTA FE NEW MEXICO OIL CONSERVATION COMMISSION C.102 and C.103	Drillin		· .	ected.Waiting on pits
SANTA FE NEW MEXICO OIL CONSERVATION COMMISSION C.102 and C.103				ng
SANTA FE SINDRY NOTICES AND REPORTS ON WELLS South Store Store		25 sx. plug 180	00 - 1925 Top of Salt	
SANTA FE NEW MEXICO OIL CONSERVATION COMMISSION Cide and C-108		25 sx. plug 497	75 - 4850 SO - 2075 Rase of Salt	
SANTA FE NEW MEXICO OIL CONSERVATION COMMISSION Close and C-108 Effective 1-455	· · · · · ·	Mr.Joe Ramey as	follows:	
SANTA FE NEW MEXICO OIL CONSERVATION COMMISSION C-103 Efficiture 1-65	4-17-70			ed on verbal permission
SANTA FE NEW MEXICO OIL CONSERVATION COMMISSION C-103 Efficiture 1-65	:			· ·
SANTA FE SANTA FE	17. Describe Proposed or Compuork) SEE RULE 1703.	pleted Operations (Clearly s	tate all pertinent details, and give pertinent dates	, including extinated date of starting any proposed
SANTA FE NEW MEXICO OIL CONSERVATION COMMISSION Effoctive 14-65				<u></u>
SANTA FE NEW MEXICO OIL CONSERVATION COMMISSION C-102 and C-103	PULL OR ALTER CASING		. —	· · · · · · · · · · · · · · · · · · ·
SANTA FE NEW MEXICO OIL CONSERVATION COMMISSION C-102 and C-103	Prince		· —	
SANTA FE NEW MEXICO OIL CONSERVATION COMMISSION C-102 and C-103 Effective 14-65	PERFORM REMEDIAL WORK	PLI	UG AND ABANDON REMEDIAL WORK	ALTERING CASING
SANTA FE FILE U.S.G.S. LAND OFFICE OPERATOR SUNDRY NOTICES AND REPORTS ON WELLS (DO NOY USE THIS FORM FOR PROPOGALS TO BRILL OR TO DEFEN ON FLUE SACE TO A DIFFERENT RESERVOIR. ON NOTE THIS FORM FOR PROPOGALS TO BRILL OR TO DEFEN ON FLUE SACE TO A DIFFERENT RESERVOIR. I. OIL OR WELL OF THE PROPOGALS OF THE PROPOGALS. 1. OIL WELL OTHER 2. Name of Operator LEATHERWOOD DRILLING CO. 3. Address of Operator P.O. BOX 1352 ROSWELL, NEW MEXICO 4. Location of Well M 330 West 188 330 FEET FROM THE LINE AND FEET FROM THE SOUTH LINE, SECTION 22 TOWNSHIP 18 S RANGE 35 E NAPPL. 15. Elevotion (Show whether DF, RT, GR, etc.) 3901.9 G.L. 12. County Lea				
SANTA FE NEW MEXICO OIL CONSERVATION COMMISSION C-102 and C-103				
SANTA FE SANTA FE U.S.G.S. LAND OFFICE OPERATOR SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS PORM FOR PROPOSALS TO BRILL OR TO DESPESS OR PLUG SACE TO A DIFFERENT RESERVOIR. 1. OIL SETTING FOR PERMIT—" (FORM C-101) FOR SUCH PROPOSALS.) 7. Unit Agreement Name Atlantic-State 1. Address of Operator LEATHERWOOD DRILLING CO. 3. Address of Operator 4. Location of Well M 330 FEET FROM THE West LINE AND REPORTS ON WELLS P.O. BOX 1352 ROSWELL, NEW MEXICO 10. Field and Pool, or Wildcat Field Wildcat Field Wildcat Field Wildcat Field Wildcat Field Wildcat		15. Sien		
SANTA FE SANTA FE U.S.G.S. LAND OFFICE OPERATOR SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUE SACE TO A DIFFERENT RESERVOIR. (DO NOT USE THIS FORM FOR PERMIT	South Lin	22 22	TOWNSHIP 18 S RANGE 35 E	MPM. (((((()))))
SANTA FE SANTA FE NEW MEXICO OIL CONSERVATION COMMISSION C-102 and C-103 Effective 14-65 Sq. Indicate Type of Lease State Fee OPERATOR SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FON PROPOSALS TO BRILL ON TO DEEPTH ON PLUE BACK TO A DIFFERENT RESERVOIR. (DO NOT USE THIS FORM FON PROPOSALS TO BRILL ON TO DEEPTH ON PLUE BACK TO A DIFFERENT RESERVOIR. 1. OIL WELL OTHER. 2. Name of Operator LEATHERWOOD DRILLING CO. 3. Address of Operator P.O. BOX 1352 ROSWELL, NEW MEXICO 10, Field and Pgol, or Wildcert				
SANTA FE NEW MEXICO OIL CONSERVATION COMMISSION C-102 and C-103 Effective 14-65 Suindicate Type of Lease State Fee State Fee OPERATOR SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM POR PROPOSALS TO DRILL OR TO DESPEN OR PLUE SACE TO A DIFFERENT RESERVOIR. 1. OIL WELL OTHER- 2. Name of Operator LEATHERWOOD DRILLING CO. 8. Form or Lease Name Atlantic-State	·			10, Field and Pool, or Wildcat
SANTA FE U.S.G.S. LAND OFFICE OPERATOR SUNDRY NOTICES AND REPORTS ON WELLS (DO NOY USE THIS FORM FOR PROPOSALS TO DELL OR TO DESPEN OR PLUS SUCH PROPOSALS.) 1. OIL SAS WELL OTHER- NEW MEXICO OIL CONSERVATION COMMISSION C-102 and C-103 Effective 14-65 State Type of Lease State Fee The Conservation of Partice Fee State Fee State Fee State Fee The Conservation Commission State Fee State Fe	3. Address of Operator	·	· · · · · · · · · · · · · · · · · · ·	
SANTA FE NEW MEXICO OIL CONSERVATION COMMISSION C-102 and C-103 Effective 14-65 Suite Type of Lease State	2. Name of Operator		CO.	
SANTA FE NEW MEXICO OIL CONSERVATION COMMISSION C-102 and C-103 Effective 14-65 FILE U.S.G.S. LAND OFFICE OPERATOR SUNDRY NOTICES AND REPORTS ON WELLS	1. OIL A GAS			
SANTA FE NEW MEXICO OIL CONSERVATION COMMISSION C-102 and C-103 Effective 14-65 FILE U.S.G.S. LAND OFFICE State Fee	(DO NOT USE THIS PORTUSE TO	SUNDRY NOTICES AND PROPERTY OF THE PROPERTY OF	D REPORTS ON WELLS 1 TO DEEPEN OR PLUG BACK TO A DIFFERENT NEBERVOI 1 FORM C-101) FOR BUCH PROPOSALS.	
SANTA FE NEW MEXICO OIL CONSERVATION COMMISSION C-102 and C-103 Effective 14-65 FILE U.S.G.S. LAND OFFICE State Fee	OPERATOR			5. State Oil & Gas Lease No.
SANTA FE NEW MEXICO OIL CONSERVATION COMMISSION C-102 and C-103 Effective 14-65	——————————————————————————————————————			
SANTA FE NEW MEXICO OIL CONSERVATION COMMISSION Effective 14-65			•	5a. Indicate Type of Lease
		NEW.	MEXICO OIL CONSERVATION COMMISSION	
Porm C-103	DISTRIBUTION			Supersedes Old

CONDITION OF APPROVAL.



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)

(In feet)

POD Number Code S	POD	不能的人的人 的第三人称单数) Q	Eric Print				į	Depth D	epth Wa	ter
1.00 induser was waster const	أخضم	in County, v		نه يونور	W. 113	័យលើ				race: Con	SEASTER!
L 03772	L	LE	2	2 21	18S	35E	644659	3623361*	130	60	70
L 03866	L	LE	3	3 22	· 18S	35E	645082	3622155*	127	65	62
L 04399	L	Ŀ	3	3 ;22	18\$	35E	645082	3622155*	90	75	15
L 05810	L	· LE ·	2	3 22	185	35E	645479	3622564*	145	95	50
							Avera	age Depth to	Water:	73 feet	

Minimum Depth: 60 feet

Maximum Depth: 95 feet

Record Count: 4

PLSS Search:

Section(s): 20-22

Township: 18S

Range: 35E

*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

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

closed)

water right file.)

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

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

(In feet)

POD Number	∵POD Code Subbasin (建设设	Q Q Q 64.16.4	Dig . Spire	Tws	Rng	X		+ 35 - 121 - 12 W T	epth War fater Colu	54 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
L 03783	L	LE		27	18S	35E	645710	3621138*	115	65	50
L 03963	L	LE	1 2	27	18\$	35E	645896	3621762*	127	70	57
L_04562	L	LE	3 1	29	185	35E	641874	3621315*	156	95	61
•							Avera	ige Depth to	Water:	76 feet	
								Minimum	Depth:	65 feet	
			•				•	Maximum	Depth:	95 feet	

Record Count: 3

PLSS Search:

Section(s): 27-29

Township: 18S

Range: 35E

*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

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

C=the file is closed)

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

4 3 3 34 18S 35E

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

(In feet)

water right file.)

Depth Depth Water

L 07129

Code Subbasin County 64 16 4 Sec Tws Rng

3618830* 645237

Average Depth to Water:

40 feet

Minimum Depth:

40 feet

Maximum Depth:

Record Count: 1.

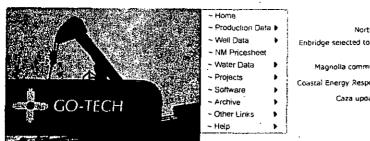
PLSS Search:

Section(s): 33-34

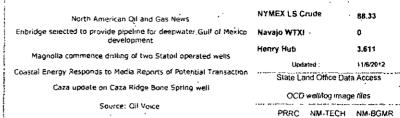
Township: 18S

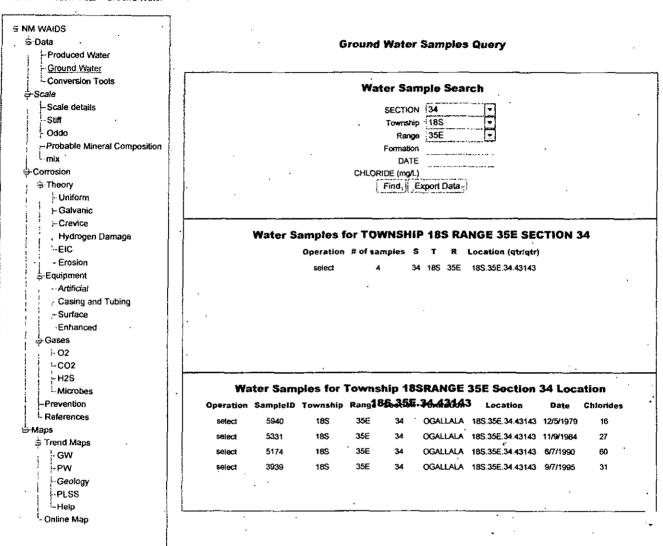
Range: 35E

*UTM location was derived from PLSS - see Help

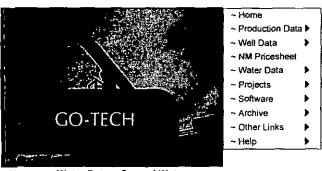


- Home>>- Water Data>>Ground Water





PETROLEUM RECOVERY RESEARCH CENTER, SOCORRO, NM-87801



-- Home>>-- Water Data>>Ground Water

North American Oil and Gas News Bonterra Energy and Spartan Oil complete business combination

JKX Oil & Gas announces offering of convertible bonds

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

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

Source: Oil Voice

NYMEX LS Crude

96.24

Navajo WTX)

Henry Hub

0 3.418

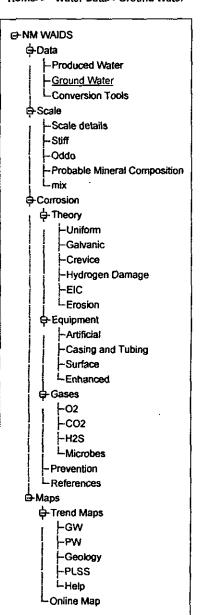
Updated :

1/24/2013

State Land Office Data Access

OCD well/log image files

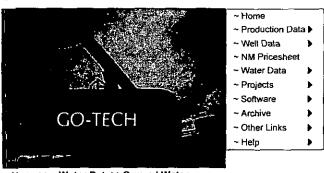
PRRC NM-TECH NM-BGMR



Ground Water Samples Query

Township Range Formation DATE CHLORIDE (mg/L) Find Export Data Water Samples for Operation # of samples S T R Location (qtr/qtr) select 1 11 18S 35E 18S.35E.11.33322 select 1 11 18S 35E 18S.35E.11.34444 select 4 16 18S 35E 18S.35E.16.12223 select 1 18 18S 35E 18S.35E.18.11113 select 3 21 18S 35E 18S.35E.21.21000 1234	Township 18S 35E 5 5 5 5 5 5 5 5 5						1	i				
Range Formation DATE CHLORIDE (mg/L) Frind Export Data	Range SE Formation DATE CHLORIDE (mg/L) Find Export Data						Ì	100				
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select 5788 18S 35E 16 OGALLALA 18S.35E.16.12223 11/9/1984 28 select 4903 18S 35E 16 OGALLALA 18S.35E.16.12223 6/7/1990 54	select 5788 18S 35E 16 OGALLALA 18S.35E.16.12223 11/9/1984 28	Operation	SampleID	Township	Range S	ection	Fo	rmati	on	Location	Date	Chlorides
select 4903 18S 35E 16 OGALLALA 18S.35E,16.12223 6/7/1990 54		select	6383	18S	35E	16	OG	ALLA	LA	18S.35E.16.12223	12/6/1979	18
	select 4903 18S 35E 16 OGALLALA 18S.35E,16.12223 6/7/1990 54	select	5788	18\$	35E	16	OG	ALLA	LA	18S.35E.16.12223	11/9/1984	28
select 4246 18S 35E 16 OGALLALA 18S.35E.16.12223 9/18/1995 31		select	4903	185	35E	16	OG	ALLA	LA	18\$.35E.16.12223	6/7/1990	54
	select 4246 18S 35E 16 OGALLALA 18S.35E.16.12223 9/18/1995 31	select	4248	18\$	35E	16	OG	ALLA	LA	18\$.35E.16.12223	9/18/1995	31

PETROLEUM RECOVERY RESEARCH CENTER, SOCORRO, NM-87801



~ Home>>~ Water Data>>Ground Water

North American Oil and Gas News

Bonterra Energy and Spartan Oil complete business combination

JKX Oil & Gas announces offering of convertible bonds

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

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

Source: Oil Voice

NYMEX LS Crude

96.24 0

Navajo WTXI Henry Hub

3.418

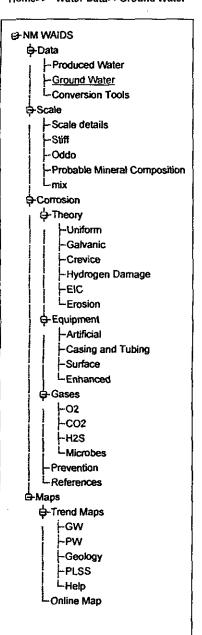
Updated :

1/24/2013

State Land Office Data Access

OCD well/log image files

PRRC NM-TECH NM-BGMR



Ground Water Samples Query

			٧	Vater S	am	ple	Sea	irch		
				SECT	ON					
				Towns	ship	189	;			
				Ra	nge	358				
				Forma			e an Aners	MANAGE - NORTHAN AGAINST		
			0111.6		TE.	M12324	Water	erran, filleterran =		
			CHLC	RIDE (m	`	xport	Dat			
				(18 (1982)	لنتنا					
				Water		-				
		Operation		•		Τ	R	Location (qtr/qt	•	
		select				18\$		18S.35E.26.1133		
		select				18\$		18S.35E.28.3221		
		select		4 :	31	185	35E	18S.35E.31.14211	3A	
		select		1 :	33	185	35E	18S.35E.33.2144	4	
		select		4 :	34	185	35E	18S.35E.34.4314	3	
		1234								
										
Vater S	amples fo	or Townsi	1ip 18	SRANG	E:	35E	Sec	tion 28 Locati	ion 18\$.3	5E.28.3221
Operation	SampleID	Township	Range	Section	Fo	ormat	ion	Location	Date	Chlorides
select	6829	18S	35€	28	00	SALL/	LA	18\$.35E.28.32210	10/25/1979	14
	6222	18S	35E	28	O	BALL	LA	18\$.35E.28.32210	12/6/1979	18
select			35E	28	O	3ALL/	LA.	18S.35E.28.32210	11/9/1984	24
select select	5530	18\$	335	20	•					
	5530 4734	18S 18S	35E	28		3ALL/	\LA	18\$.35E.28.32210	8/7/1990	52

FETROLEUM RECOVERY RESEARCH CENTER, SOCORRO, NM-87801



December 19, 2012

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

RE: REEVES QUEEN WATERFLOOD UNIT

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

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list on accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/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.

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: REEVES QUEEN WATERFLOOD UNI

Reported: 19-Dec-12 15:56

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

Fax To: NOT GIVEN

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

Cardinal Laboratories

.*=Accredited Analyte

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Celey & Keene

Reported:

19-Dec-12 15:56

Analytical Results For:

SUNDOWN ENERGY

P. O. BOX 277

WICKETT TX, 79788

Project: REEVES QUEEN WATERFLOOD UNI

Project Number: NOT GIVEN

Project Manager: KYLE PAXTON

Fax To: NOT GIVEN

SOUTH VACUUM #5 H202825-01 (Water)

Reporting Limit Analyte Result Units Dilution Method Batch Analyst Analyzed Notes Cardinal Laboratories Inorganic Compounds Alkalinity, Bicarbonate 34.2 5.00 mg/L 2110104 310.t 26-Nov-12 Calcium 2101718 HM SM3500Ca-3090 mg/L 1,60 30-Nov-12 D mg/L 2110104 Alkalinity, Carbonate ND 310.1 0.00 HM 26-Nov-12 Chloride* 13800 4.00 mg/L 2112104 ΗМ 4500-CI-B 26-Nov-12 Conductivity* 40300 uS/cm 2112607 120.1 1.00 HM 26-Nov-12 Magnesium 899 1.00 mg/L 2101718 HM SM3500Mg-30-Nov-12 E pH* 0.100 pH Units 2112607 НМ 150.1 6.11 26-Nov-12 Potassium 185 mg/L 2101718 НМ **HACH 8049** 1.00 30-Nov-12 Sodium 3730 1.00 mg/L 2101718 НМ 30-Nov-12 Calculation Sulfate* 293 10.0 mg/L 2112703 ΑP 27-Nov-12 375,4 TDS* mg/L 23300 5.00 2112602 HM 160.3 21-Nov-12 Alkalinity, Totai* 2110104 310 1 28.0 4.00 mg/L НМ 26-Nov-12

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SUNDOWN ENERGY

Project: REEVES QUEEN WATERFLOOD UNI

Reported: 19-Dec-12 15:56

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

Project Manager: KYLE PAXTON

Fax To: NOT GIVEN

LEA 403 STATE #2 H202825-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardin	al Laborat	ories				<u> </u>	
Inorganic Compounds		`							
Alkalinity, Bicarbonate	503	5.00	mg/L	. 1	2110104	HM ·	26-Nov-12	310.1	
Calcium	2480	1.60	mg/L	1	2101718	НM	30-Nov-12	SM3500Ca- D	
Alkalinity, Carbonate	· ND	0.00	mg/L	ι	2110104	HМ	26-Nov-12 ·	310.1	
Chloride*	19400	4.00	mg/L	1	2112104	HM	26-Nov-12	4500-CI-B	•
Conductivity*	58700	1.00	uS/cm	. 1	2112607	HM .	26-Nov-12	120,1	
Magnesium	267	1.00	mg/L	1	2101718	HM	30-Nov-12	SM3500Mg- E	
pH*	7.56	0.100	pH Units	1	2112607	HM	26-Nov-12	150.1	
Potassium ·	575	1,00	mg/L	ì	2101738	HM	30-Nov-12	HACH 8049	
Sodium	9190	1.00	mg/L	1 .	2101718	HМ	30-Nov-12	Calculation	
Sulfate*	. 261	10.0	mg/L	٠1	2112703	AP	27-Nov-12	375,4	
TDS*	32300	5.00	mg/L	t	2112602	HM	21-Nov-12	160.1	
Alkalinity, Total*	412	4.00	mg/L	1	2110104	HM	26-Nov-12	310.1	

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Celey D. Keine



SUNDOWN ENERGY

Project: REEVES QUEEN WATERFLOOD UNI

Reported:

P. O. BOX 277

Project Number: NOT GIVEN

19-Dec-12 15:56

WICKETT TX, 79788

Project Manager: KYLE PAXTON

Fax To: NOT GIVEN

COMP OF S VACUUM & LEA 403

H202825-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
,		Cardin	ıl Laborat	ories	٠				
Inorganic Compounds									•
Alkalinity, Bicarbonate	317	5.00	mg/L	1	2110104	НМ	13-Dec-12	310,1	
Alkalinity, Carbonate	ND	0.00	mg/L	ì	2110104	HM	13-Dec-12	310.1	
Chloride*	16700	4,00	mg/L	i	2121905	HM	19-Dec-12	4500-C1-B	
Conductivity*	50900	1,00	uS/cm	1	2121806	AP	18-Dec-12	120.1	
p H *	7.57	0.100	pH Units	i	2121910	HM	11-Dec-12	150.1	
Resistivity	0.196		Ohms/m	1	2121908	HM	18-Dec-12	120.1	
Specific Gravity @ 60° F	1,016	. 0,000	(blank)	4	2121909	HM	19-Dec-12	SM 2710F	
Sulfate*	296	10.0	mg/L	1	2120501	ΑP	10-Dec-12	375,4	
TDS*	33300	5.00	mg/L	1,	2120605	, AP	13-Dec-12	1.001	
Alkalinity, Total*	260	4.00	mg/L	1	2110104	НМ	13-Dec-12	310.1	•
Dissolved Metals									
3arium -	ND	1.00	mg/L	100	2121907	CK	13-Dec-12	200.7	GAL
Calcium	2200	100	mg/L	100	2121907	CK.	13-Dec-12	200.7	GAL
ron	ND.	5.00	mg/L	100	2121907	CK	13-Dec-12	200.7	GAL
Magnesium	619	100	mg/L	100	2121907	CĶ	13-Dec-12	200,7	GAL
Potassium	. 326	100	mg/L	100	2121907	CK	13-Dec-12	200,7	GAL
odium	7650	100	mg/L	100	2121907	CK	13-Dec-12	200.7	GAL

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SUNDOWN ENERGY

Project: REEVES QUEEN WATERFLOOD UNI

Reported:

P. O. BOX 277

Project Number: NOT GIVEN

19-Dec-12 15:56

WICKETT TX, 79788

Project Manager: KYLE PAXTON

Fax To: NOT GIVEN

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source	• *	%REC		RPD	
Analyte	Result	Limit	Uzits	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2101718 - *** DEFAULT PREP ***	·	· ·				•				
Blank (2101718-BLK1)				Prepared:	17-Oct-12 A	nalyzed: 0	9-Nov-12	_		
Magnesium	ND	1.00	mg/L						-	
Porassium	ND	1,00	mg/L	•						
Catcium	ND	. 1.60	mg/l.							
LCS (2101718-BS1)		-		Prepared &	Analyzed:	17-Oct-12				
Potassium	3.00		mg/L	3.00		100	80-120			
Magnesium	54.4		mg/L	50.0		· 109	80-120		•	
Calcium	20.8		mg/L	. 20.0		104	80-120			
Duplicate (2101718-DUP1)	Sour	rce: H202593-	01	Prepared: 1	7-Oct-12 A	nalyzed: 09	9-Nov-12			
Magnesium .	1820	1.00	mg/L		1880			3.24	20	
Calcium	6710	1.60	mg/L		6410		•	4.57	20	
Potessium	540	1.00	mg/L		540			0.00	20	
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				<i>:</i>			
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			
LCS Dup (2110104-BSD1)				Prepared &	Analyzed:	31-Oct-12				
				; .			80-120		20	
Alkalinity, Carbonate	ND	0.00	mg/L	•			00 120			
	ND 137	0,00 5,00	mg/L mg/L	•			80-120	0.00	20	

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

Reported: 19-Dec-12 15:56

Project Number: NOT GIVEN

Project Manager: KYLE PAXTON

Fax To: NOT GIVEN

Inorganic Compounds - Quality Control

Cardinal Laboratories

	Danile	Reporting	¥7-1-	Spike	Source	#/DEC	%REC	nnn.	RPD	NI
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2112104 - General Prep - Wet Chem						···		<u>.</u>		
Blank (2112104-BLK1)				Prepared &	Analyzed:	26-Nov-1	2			
Chloride	ND	4.00	mg/L			•				
LCS (2112104-BS1)		1		Prepared &	Analyzed:	26-Nov-1	2			
Chloride	104	4.00	mg/L	100		104	80-120			
LCS Dup (2112104-BSD1)				Prepared &	Analyzed:	26-Nov-12	2			
Chloride	104	4.00	mg/L	100		104	80-120	0.00	20	
Batch 2112602 - Filtration										
Blank (2112602-BLK1)				Prepared: 2	21-Nov-12 A	nalyzed: 2	29-Nov-12			
TDS	ND	5.00	mg/L							•
LCS (2112602-BS1)				Prepared: 2	21-Nov-12 A	nalyzed: 2	29-Nov-12			
TDS	239		mg/L	240		99,6	80-120		•	•
Duplicate (2112602-DUP1)	Sou	rce: H202812	2-03	Prepared: 2	21-Nov-12 A	nalyzed: 2	29-Nov-12			
TDS	1560	5.00	mg/L		1660	-		6.21	20	•
Batch 2112607 - General Prep - Wet Chem										
LCS (2112607-BS1)				Prepared &	Analyzed:	26-Nov-12	2			
pH	7.05		pH Units	7.00		101	90-110			
Conductivity	1410		uS/cm	1410		100	80-120			
Duplicate (2112607-DUP1)	Son	rce: H202825	⊢0 1 .	Prepared &	Analyzed:	26-Nov-12	2		· · · · · · · · · · · · · · · · · · ·	
Conductivity	40300	1.00	uS/cm		40300			0.00	20	
Hq	6.14	0,100	pH Units		6.11			0.490	20	

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

Reported: 19-Dec-12 15:56

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 2112703 - General Prep - Wet Chem	·								·	
Blank (2112703-BLK1)				Prepared &	Analyzed:	27-Nov-12				
Sulfate	ND	10.0	mg/L				_,			
LCS (2112703-BS1)				Prepared &	Analyzed:	27-Nov-12	· 			
Sulface	16.9	0,01	mg/L	20.0		84.6	80-120			
LCS Dup (2112703-BSD1)				Prepared &	Analyzed:	27-Nov-12				
Sulfate	19,4	10.0	mg/L	20.0		97.2	80-120	13.8	. 20	
Batch 2120501 - General Prep - Wet Chem		<u></u> .		,- <u></u>				···········		·
Blank (2120501-BLK1)			· 	Prepared &	Analyzed:	10-Dec-12	· · ·			·
Sulfate	ND	10.0	mg/l,							
LCS (2120501-BS1)				Prepared &	Analyzed;	10-Dec-12	· .			
Sulfate	16.7	10,0	mg/L	20.0		83.7	80-120			
LCS Dup (2120501-BSD1)				Prepared &	Analyzed:	10-Dec-12		_		
Sulfate	18.1	10.0	mg/L	20.0		90,4	80-120	7.64	20	
Batch 2120605 - Filtration				<u> </u>						
Blank (2120605-BLK1)				Prepared &	Analyzed:	06-Dec-12				
TDS	ND	5.00	mg/L							
LCS (2120605-BS1)				Prepared &	Analyzed:	06-Dec-12				
TDS	223		mg/L	240	· · ·	92.9	80-120	,		

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PLEASE MOTEL Listedity and Charages. Confident's inchillary and clears, including three its most of contract or ton, shall be instead to the instead to the instance paid by clears for installing three its most of contract or ton, shall be instead to instance paid by clears for instance or conveyenable developed contract or the application of the application participations. In no owner shall Confined be basis for incidental or conveyenable developed to the application participations, but not to the participations, loss of use, or loss of profits incorrect by client's admittables, artificiations, but not to the participations, loss of use, or loss of profits incorrect by client's and claims or aucresport artificial cut of or related to the participations of the seminar by Centernal, regardless of whether such claims is pasted upon any of the above stated resource or otherwise. Results related into the profit shall not be reproduced occupy in Adl with vestions approved of Cardinal Liberturistics.

Celey & Keine



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

Analytical Results For:

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

Reported: 19-Dec-12 15:56

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	RPD	RPD Limit	Notes
лишуш	Kesun	- Limit	· ·	Lava	1100011		Lamits		- Camir	110103
Batch 2120605 - Filtration	•			<u>.</u>			·			
Duplicate (2120605-DUP1)	Sou	rce: H202905	-01	Prepared &	Analyzed:	06-Dec-12				
rds	1200	5.00	mg/L		1140			5.13 .	20	
Batch 2121806 - General Prep - Wet Chem										
LCS (2121806-BS1)				Prepared &	: Analyzed:	18-Dec-12		<u>. </u>	•	
Conductivity	478		uS/cm	500		95.6	80-120			
Duplicate (2121806-DUP1)	Sou	rce: H203018-	-01	Prepared &	Analyzed:	18-Dec-12	<u></u>			
Conductivity	1530	00,1	uS/cm		1530			0.00	20	
Batch 2121905 - General Prep - Wet Chem		·				·		•		
Blank (2121905-BLK1)		,		Prepared &	: Analyzed:	19-Dec-12				
Chloride	ND	4.00	mg/L							
LCS (2121905-BS1)				Prepared &	: Analyzed:	19-Dec-12				<u>, , , , , , , , , , , , , , , , , , , </u>
Chloride	100	4,00	mg/L	100		100	80-120		•	
LCS Dup (2121905-BSD1)				Prepared &	Analyzed:	19-Dec-12		•		
Chloride	108	4,00	mg/L	100		108	80-120	7.69	20	,
Batch 2121909 - General Prep - Wet Chem										
Duplicate (2121909-DUP1)	Som	rce: H202825	-03	Prepared &	: Analyzed:	19-Dec-12				
Specific Gravity @ 60° F	1.014	0.000	[blank]	· · · · · · · · · · · · · · · · · · ·	1.016			0.216	200	

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Celey D. Keen



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

Analytical Results For:

SUNDOWN ENERGY

WICKETT TX, 79788

Project: REEVES QUEEN WATERFLOOD UN)

Reported:

P. O. BOX 277

Project Number: NOT GIVEN

19-Dec-12 15:56

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 2121910 - General Prep - Wet Chem								,		
LCS (2121910-BS1)				Prepared &	Analyzed:	11-Dec-12	·			
рН	7.00		pH Units	7.00		100	90-110			
Duplicate (2121910-DUP1)	Sour	rce: H202825-	03	Prepared &	Analyzed:	11-Dec-12				
рН	7.61	0.100	pH Units		7.57			0.527	20	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Lieutely and Dearmiges. Cardinal's bability and claim's exclusive remoty for any claim artising, whether based in contract or ton, shall be letted to the annount paid by client for annipses. All claims, including those for negligence and any other clause vehicles—in the deemed welved unless made in writing and received by Cardinal wildline have completed or completed or on expectable service. In no event shall Curidinal be Bable for including, without his hardlines in the performance of the service hereunder by Cardinal, regardless of whether and claims to exceeded your any of the latest resource or otherwise. Results restored to this performance or otherwise. Results restored to this performance or otherwise. Results restored to this performance of the service hereunder by Cardinal latest resource or otherwise. Results restored to the service hereunder the claims of the service.

Celey D. Keine

%REC



Analytical Results For:

SUNDOWN ENERGY

Project: REEVES QUEEN WATERFLOOD UNI

Reported:

RPD

P. O. BOX 277

Project Number: NOT GIVEN

19-Dec-12 15:56

WICKETT TX, 79788

Project Manager: KYLE PAXTON

Fax To: NOT GIVEN

Spike

Dissolved Metals - Quality Control

Cardinal Laboratories

Reporting

Analyte	Result	Limit	Unita	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2121907 - Dissolved/Potential	ly Dissolved Metals									<u> </u>
Blank (2121907-BLK1)				Prepared:	12-Dec-12 A	nalyzed: 1	3-Dec-12			
Calcium	ND	1.00	mg/L		•					
Sodium	ND	1.00	mg/L							
Magnesium	ND	1,00	mg/L			•				
Potassium	ND	1.00	mg/L							
roa ·	ND	0.050	mg/L							
Barium	ND	0.010	mg/L							
				Prepared: 1	12-Dec-12 A	nalyzed: 1	3-Dec-12			
Sodium	7.88		mg/L	8.10		97.3	85-115			
Magnesium	26.3		mg/L	25.0		105	85-115			
Calcium	4,68		mg/L	5.00		93,6	85-115		•	
Berium .	2.36		mg/L	2.50		94.4	- 85-115		• •	
otassium	9.85		mg/L	10.0		98,5	85-115			
ron	4.87		mg/L	5.00		97.4	85-115			
.CS Dup (2121907-BSD1)			•	Prepared: 1	12-Dec-12 A	nalyzed: 1	3-Dec-12			•
Calcium	4.71		mg/l.	5.00		94.2	85-115	0.639	20	
Magnesium	26,3		mg/L	25.0		105	85-115	0.00	20	•
odium ·	7.87	•	mg/L	8.10		97.2	85-115	0.127	20 .	
otassium	. 9.69		mg/L	10.0		96.9	85-115	1.64	20	
ron ·	4.91		mg/L	5.00		98.2	85-115	0.818	20	

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Barium

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PLEASE NOTE: Libbility and Damages. Carginal's Madifier and disent exclusive remedy for any claim intend, whether based in contract or text, shall be limited to the amount paid by client for analyses. All claims industing shows for negligance and any other cause windowers shall be decreased welved unless made in writing and recovered by Cardinal waters highly (20) days after completable service. In no event shall Cardinal be listed for incompletable or completable completable service. In no event shall Cardinal be listed for completable and cardinal beautiful to the performance of the services humander by Cardinal, registries of whether said claims is based upon any of the above stated reasons of coherentees. Results middle only to the samples identified above. This report shall not be reproduced except in all with written approval of Cardinal Liberatories.

Celey D. Keine



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

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

Insufficient time to reach temperature.

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

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

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*=Accredited Analyte

RESES NOTE: Libbility and Charteges. Cardinal's labbility and cleanth exclusive reantity for any claim arising, whether based in contract or box, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatourever steel be decemed melvior unless made in writing and received by Cardinal widths there; (20) days after completion of the applicable service. In no terms steel Cardinal be labble for including, which we like the production of the applicable service. In no terms steel Cardinal be labble for including and received the performance of the services hereander by Cardinal including such claims is traced upon any of the above statular reasons or otherwise. Results relate relate only to the complete identified above, The report shall not be reproduced except in fall with veition approval of Cardinal Laboratories.

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	(575) 393-2326 FAX (575) 393-24	76	·		·	·			·	
Company Name	& Sundown E Kyle Paxton	nec	SUX .	3 B	ILL TO	· ·	ANALYS	S REQU	EST	
Project Manager	Kyle Paxton		- 0 0	P.O. #:		1 2		T		
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Phone #: 214	.368 . 6100 Fax#: X	210	<u> </u>	Address:		(3)	1 1		1	
Project #:	Project Owns		etrop - workstan - too pay whence	City:	A. 1571 A. P. C.		- } - }	1		
Project Name:	Water Sample	5		State:	Zip:					
Project Location				Phone #:		20				
Sampler Name:	Jason Able			Fax #:] %				
FOR LAB USE ONLY			MATRIX	PRESER	SAMPLING	3		1 1]]
Lab I.D. H202829	Sample I.D.	(G)RAB OR (C)OM	CROUNDWATER WASTEWATER SOIL	OTHER: ACIDIBASE ICE / COOL	DATE TIME	Sall				
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analyses. All claims include sentce, in ne event shall C	nd Damages, Cardinal's labidity and client's exclusive remedy to ng prose for regispence and any other cause whatsoever shall to ardinal be lable for inciclental or consequental damages, includ	e deerred w	apred unjeks made sh writing critision, business esternippo	and received by Cardina ns, loss of use, at loss of	ed to the errount part by the client to 2 within 30 days after completion of profits incurred by cherit, its subsidi-	the applicable langs				
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	influence or successors areing out of or related to the performance of	of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated re-	es-time or editoriving	·
	Relinquished By:	Regelved By:	Phone Result: 🖺 Yes 🗒 No :Add'i Phone #:	
		M(E)(G)/G(G)	Fax Result: ☐ Yes ☐ No :Add'l Fax #:	
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[†] Cardinal cannot accept verbal changes. Please fax written changes to (5/5) 393-2326

CARDINAL LABORATORIES SCALE INDEX WATER ANALYSIS REPORT

Company

SUNDOWN ENERGY

Date Sampled : 11/20/12

Lease Name : Well Number :

REEVES QUEEN WATERFLOOD UNIT COMPOSITE OF S VACUUM & LEA 403

Company Rep.: KYLE PAXTON

Location

NOT GIVEN

- ^	M	AI	YSIS	3

	ANALISIS						
	1. pH	7.57					
	2. Specific Gravity @ 60/60 F.	1.0160				•	
	3. CaCO3 Saturation Index @ 80 F.	+0.546	'Calcium Carbonate Scale Possible'				
	@ 140 F.	+1.476		'Calcium Ca	rbo	onate Scale	Possible'
	Dissolved Gasses			•			
	4. Hydrogen Sulfide	ND	PPM				
	5. Carbon Dioxide	ND	PPM				
	6. Dissolved Oxygen	Not Determined				•	
	Cations	mg/L	_/	Eq. Wt. :	=	MEQ/L	_
	7. Calcium (Ca++)	2,200.00	1	20.1	=	109.45	
	8. Magnesium (Mg++)	619.00	1	12.2	=	50.74	
	9. Sodium (Na+)	7,650	- /	23.0	=	321.49	
	10. Barium (Ba++)	0.000	- /	68.7	=	0.00	
	Anions						
	11. Hydroxyl (OH-)	.0	1	17.0	=	0.00	
	12. Carbonate (CO3=)	0	- /	30.0	=	0.00	
	13. Bicarbonate (HCO3-)	317	1	61.1	=	5.19	
•	14. Sulfate (SO4=)	296	1	48.8	= .	6.07	
	15. Chloride (Cl-)	16,700	1	35.5	=	470.42	
	Other						
•	16. Soluble Iron (Fe)	0.000	1	18.2	=	0.00	
•	17. Total Dissolved Solids	33,300		-			•
	18. Total Hardness As CaCO3	8,042.0		ė			
•	19. Calcium Sulfate Solubility @ 90 F.	2,270					
. :	20. Resistivity (Measured)	0.196	+	Ohm/Meters	•	@ 77	Degrees (F)

Logarithmic Water Pattern

PROBABLE MINERAL COMPOSITION

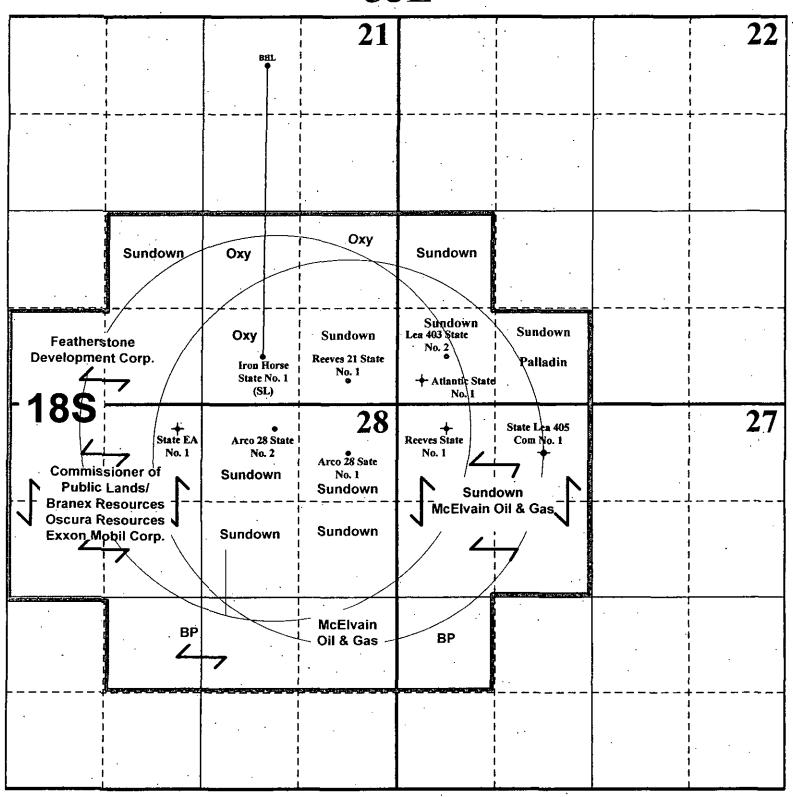
PROBABLE MINERAL COMPOSITION									
Eq. Wt.	X	MEQ/L	=	mg/L					
81.04	X	5.19	=	420					
68.07	Χ	6.07	=	413					
55.50	X.	98.20	=	5,450					
73.17	X	0.00	=	0					
60.19	Х	0.00	=	0					
47.62	X	50.74	=	2,416					
84.00	X	0.00	= ,	0					
71.03	Χ	0.00	=	0					
58.46	X	321.49	=	18,794					
	Eq. Wt. 81.04 68.07 55.50 73.17 60.19 47.62 84.00 71.03	Eq. Wt. X 81.04 X 68.07 X 55.50 X 73.17 X 60.19 X 47.62 X 84.00 X 71.03 X	Eq. Wt. X MEQ/L 81.04 X 5.19 68.07 X 6.07 55.50 X 98.20 73.17 X 0.00 60.19 X 0.00 47.62 X 50.74 84.00 X 0.00 71.03 X 0.00	Eq. Wt. X MEQ/L = 81.04 X 5.19 = 68.07 X 6.07 = 55.50 X 98.20 = 73.17 X 0.00 = 60.19 X 0.00 = 47.62 X 50.74 = 84.00 X 0.00 = 71.03 X 0.00 =					

Form C-108 Affirmative Statement Sundown Energy, LP Arco 28 State Wells No. 1 & 2 Section 28, T-18 South, R-35 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



- Proposed Injection Well
- Producing Well

PA'd Well

C-108 Notice Area

Text Leasehold or Mineral Interest Owner Operator

Sundown Energy, LP
Reeves Queen Unit Waterflood
Offset Operator/Leashold Owner
Identification

Sundown Energy, LP Form C-108: Arco 28 State Wells No. 1 & 2 Section 28, T-18 South, R-35 East, NMPM Lea County, New Mexico

Offset Operator/Leasehold Owner Notification List (See Attached Map)

Oxy USA, Inc. P.O. Box 4294 Houston, Texas 77210

Featherstone Development Corp. P.O. Box 429 Roswell, New Mexico 88202

Paladin Energy Corporation 10290 Monroe Drive, Suite 301 Dallas, Texas 75229

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

T.H. McElvain Oil & Gas LLP 1050 17th Street, Suite 2500 Denver, Colorado 80265

Branex Resources/Oscura Resources 629 Sudderth Drive, Ruidoso, New Mexico 88345

BP 740 Rosebud Rd. Nara Vista, New Mexico 88430

Exxon Mobil Corporation P.O. Box 4358 Houston, Texas 77210-4358

Surface Owner (Arco 28 State Wells No. 1 & 2)

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

Additional Notice

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