DATE	4, 17, 12 SUSPER	
		NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau - 1220 South St. Francis Drive, Santa Fe, NM 87505 - Engineering Cheso Pear Ke My 74 - Engineering Bureau - - E
•••••	•.••• <u>•••</u> ••• <u>•</u> ••• <u>•</u> •••••••••••••••••	ADMINISTRATIVE APPLICATION CHECKLIST 30-05-27008
Ţ	HIS CHECKLIST IS N	ANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE
Applic	[DHC-Dow [PC-Pi	nsi Indard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] Infolo Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] Infolo Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Prossure Increase] Infied Enhanced Oll Recovery Certification] [PPR-Positive Production Response]
	TYPE OF AI [Å]	PPLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Simultaneous Dedication NSL NSP SD
	Checl [B]	k One Only for [B] or [C] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM
	[C]	Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD PIPI EOR PPR
	[D]	Other: Specify
[2]	NOTIFICAT [A]	ION REQUIRED TO: - Check Those Which Apply, or Does Not Apply > Working, Royalty or Overriding Royalty Interest Owners >
	[B]	Offset Operators, Leaseholders or Surface Owner
	[C]	Application is One Which Requires Published Legal Notice
	[D]	 Offset Operators, Leaseholders or Surface Owner Application is One Which Requires Published Legal Notice Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Lond Managoment - Commissioner of Public Londs, State Land Office Ear of the Chose Above - Direct CoCNet (Section of Public Lends, State Land Office)
	[E]	X For all of the above, Proof of Notification or Publication is Attached, and/or,
	[F]	Waivers are Attached
[3]		CURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE ATION INDICATED ABOVE.
[4] appro [,] applic	val is accurate a	TION: I hereby certify that the information submitted with this application for administrative and complete to the best of my knowledge. I also understand that no action will be taken on this equired information and notifications are submitted to the Division.
	Note	: Statement must be completed by an individual with managerial and/or supervisory capacity.
	ı Coffinan	Bronda Collins Supervisor-Regulatory Compliance 4-13-12
Print C	r Type Name	Signature Title Date brenda.coffman@chk.com

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Regulatory Department

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April 16, 2012

State of New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, NM

Re: Application for administrative approval to dispose of the salt water in the CACTUS 16 STATE 1 well. Located in Unit C, of Section 16, T-24-S R-31-E 330'FNL & 2310' FWL, NMPM Eddy Co., New Mexico

Dear Mr. Jones,

Please find our C-108 application for Chesapeake Operating, Inc. to convert this well for salt water disposal.

If you have any questions or need additional information, please call or email me.

Sincerely,

Bryan Arrant Regulatory Specialist II

405.935.3782 bryan.arrant@chk.com

<u>New Mexico Oil Conservation Division's (C-108)</u> <u>Application for Authorization to Dispose</u>

CACTUS 16 STATE 1 Unit C of Section 16, T-24-S R-31-E 330' FNL & 2310' FWL, NMPM Eddy County, NM API# 30-015-27008

Chesapeake Operating, Inc. proposes to re-enter the above captioned well and convert to salt water disposal in the Bell and Cherry Canyon formations of the Delaware Mountain Group (DMG).

Please find the following application for authorization to dispose with attachments and item information.

Item I	The purpose of this application is for salt water disposal.	
Item II	Chesapeake Operating, Inc. (OGRID # 147179) P.O. Box 18496 Oklahoma City, OK 73154-0496 Bryan G. Arrant, Contact phone # 405.935.3782	
Item III	See attached data sheets	
Item IV	This is not an existing project.	
Item V	See attached map showing $\frac{1}{2}$ mile and 2 mile radius.	

Item VI See attached tabulation of wells of public record within the area of review which penetrate the proposed disposal zone and well-bore schematics of all plugged wells with ½ mile of the AOR.

Item VII

- 1) The daily average disposal rate is expected to be 3000 BWPD. The maximum daily rate will be approximately 5000 BWPD.
- 2) The system will be closed.
- 3) The proposed average disposal pressure is expected to be 500 psig and the maximum pressure is expected to be 887 psig.
- 4) The source of water to be disposed is produced water from surrounding wells which produce from the Delaware and Bone Spring. Disposal will be in the Bell Canyon and upper Cherry Canyon formations of the DMG. Proposed perforations will be from 4436'-5426'. Within the Cactus 16 State #1 wellbore, the closest inactive producing perforation to the proposed injection perforations is separated by 589'. Bottom

injection perforation is 5426' and top of the inactive producing perforation is 6015'. The 589' of formation consists of alternating sand, shale, and carbonate.

5) The Bell Canyon and upper Cherry Canyon formations of the DMG are regionally non-productive. A chemical analysis from the Delaware formation water of Chesapeake's LOTOS C FEDERAL 905 (API# 30-015-32558), an offset well to the northeast is attached.

Item VIII

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The proposed injection interval consists of porous sandstones. The sands are light gray, clear to frosted, fine to very fine crystalline, sub-rounded with some being sub-angular. well sorted and unconsolidated. The grains are predominantly quartz and feldspar with some carbonates present that are cementing agents. The intervals for injection are a non-hydrocarbon bearing zone. The closest hydrocarbon bearing zone in the area is found in the lower Cherry and Brushy Canyon sands of the DMG.

The geological formation tops for the Cactus 16 State 1 well in the DMG are indicated below:

Lamar Limestone:	4383'
Bell Canyon:	4412'
Cherry Canyon:	5300'
Brushy Canyon:	6890'

Item IX A re-completion procedure is attached.

Item X Electric logs are available for public record on NMOCD's web-site.

Item XI There are no records of any fresh water wells within a radius of over two miles of the proposed disposal well. A document from the New Mexico Office of the State Engineer's document is provided.

The proposed disposal well is located 330' south of the secretary's potash boundary of R-111-P. This well is over 30 miles SE of the Capitan Reef aquifer, and is approximately 19 miles ESE of Loving, N.M.

Item XII There is no evidence of open faults or any other hydrological connections between the disposal zone and any underground sources of drinking water.

Item XIII Proof of Notice

• A copy of the application has been furnished by certified mail to all interest owners. A list is provided.

- A copy of the legal advertisement in the county in which the well is located is provided.
- This well is located on state lands. The New Mexico State Engineer's office has been notified by certified mail.
- A copy of the application has been sent to the NMOCD's District II office.

Additional information:

• Geological formation tops

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• Permit: Copy of application to re-enter. Submitted to OCD District II Office.

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

APPLICATION FOR AUTHORIZATION TO INJECT

1.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? Yes No
II.	OPERATOR: Chesapeake Operating, Inc.
	ADDRESS: P.O. Box 18496 Oklahoma City OK 73154
	CONTACT PARTY: Bryan Arrant PHONE: (405)935-3782
III.	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: Bryan Arrant
	SIGNATURE: DATE: DATE:
*	E-MAIL ADDRESS: <u>bryan.arrant@chk.com</u> 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.

INJECTION WELL DATA SHEET

OPERATOR: Chesapeake Operating, Inc.

WELL NAME & NUMBER: CACTUS 16 STATE 1

WELL LOCATION: 330' FNL & 2310' FWL	С	16	24 South	31 East					
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE					
<u>WELLBORE SCHEMATIC</u>			<u>WELL CONSTRUCTION DATA</u> Surface Casing						
	Hole Size: <u>17 1/2"</u>		Casing Size: 13 3/8	<u>}''</u>					
	Cemented with: 470 sxs	SX.	or	ft ³					
	Top of Cement: <u>0'</u>	·····	Method Determined	d: <u>Circulated</u>					
		Intermedia	te Casing						
	Hole Size: <u>12 1/4"</u>		Casing Size: 8 5/8"						
	Cemented with: 1450 sx	sSX.	or	ft ³					
	Top of Cement: <u>0'</u>		Method Determine	d: <u>Circulated</u>					
		<u>Productio</u>	n Casing	•					
· · · ·	Hole Size: <u>7 7/8</u> "		Casing Size: 5 1/2"						
	Cemented with: 250 sxs	s SX.	or	ft ³					
· · · · · · · · · · · · · · · · · · ·	Top of Cement: _6820'		Method Determined	d: <u>CBL</u>					
	Total Depth: <u>8450'</u>								
		Injection	Interval						
	4436'	fee	t to <u>5426' (Perforated</u>) ·					
	(Pe	erforated or Open H	lole; indicate which)						

INJECTION WELL DATA SHEET

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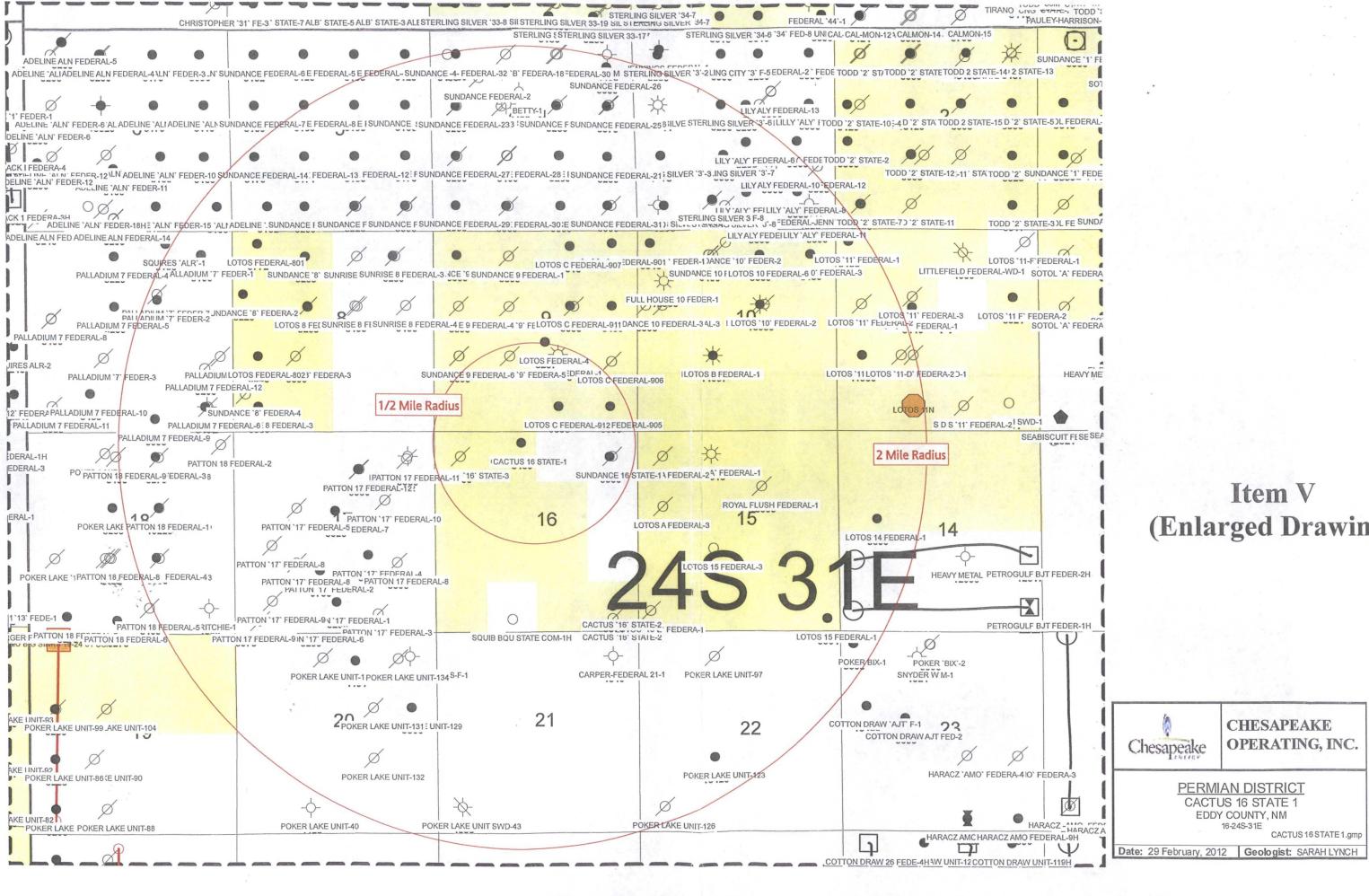
	Ding Size: 2 3/8"Lining Material: Plastic	
Тур	De of Packer: Baker-Loc Set	
Pac	cker Setting Depth: 4336'	
Oth	ner Type of Tubing/Casing Seal (if applicable):	
	Additional Data	
1.	Is this a new well drilled for injection?	
	If no, for what purpose was the well originally drilled? <u>Oil & Gas Production</u>	
2.	Name of the Injection Formation: _Delaware	
3.	Name of Field or Pool (if applicable): <u>POKER LAKE; DELAWARE, NORTH</u>	
4.	Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. Yes.	
	6015'-8228' (AO) Detailed well-bore digarm is provided.	
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: <u>All oil and gas production is in the Lower Cherry and Brushy Canyon formation</u>	ons
	of the DMG. Depths range from 6015'-8228', OA.	

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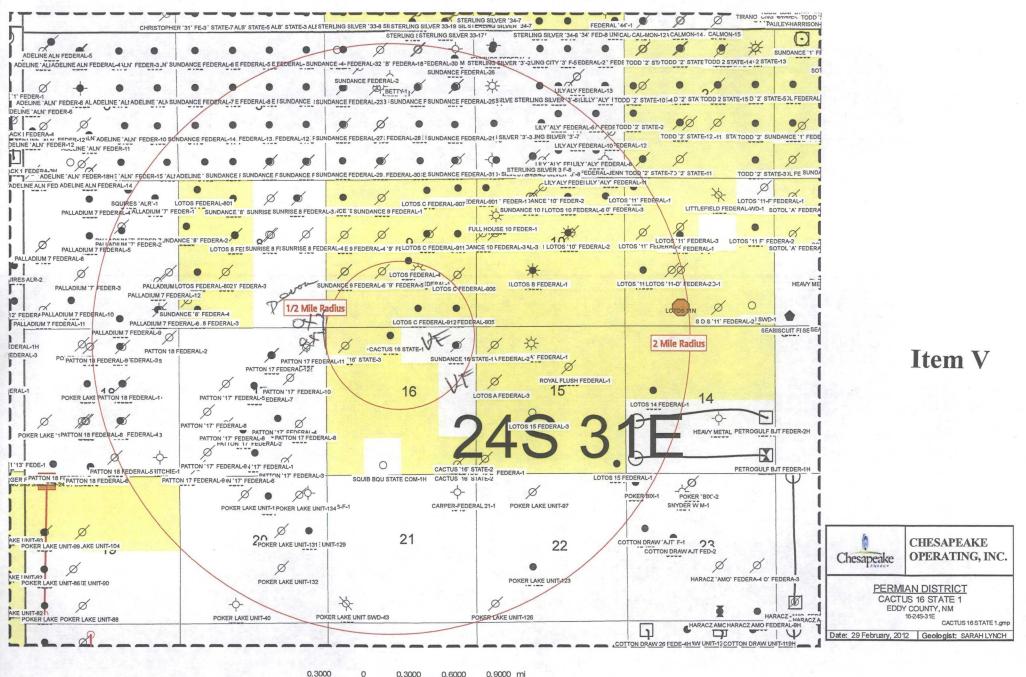
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0.3000 0.3000 0,6000 0.9000 mi 0

(Enlarged Drawing)



0.3000 0.6000 0.9000 mi 0

Cactus 16 State 1

Operator	Well Name	API No	County	Sec Twn Range	Туре	Status	Spud Date	Comp Date	TD	PBTD	Comp Zone	Comp Interval	Casing Program	TOC	Perfs
Chesapeake	Cactus 16 State 1	3001527008	Eddy	16 T24S R31E	Oil	T/A	6/17/1992	7/17/1992	8450'	5915'	Brushy Canyon		13 3/8", 54# @ 626' w/ 470 sxs 8 5/8", 32# @ 4250' w/ 1450 sxs 5 1/2", 15.5# @ 8450' w/ 250 sxs		6,015-6,020 (20 holes) 6600-6600(4 sqz holes) 8,053-8,089 (36 holes) 8,165-8,168 8,191-8,196 8,224-8,228
V-F Petroleum	Sundance 16 State 1	3001534091	Eddy	16 T24S R31E	Oil	Producing	4/30/2005	1/6/2006	8355'	8303'	Brushy Canyon		13 3/8", 48# @ 652 w/ 630 sxs 8 5/8", 32# @ 4290' w/ 1870 sxs 5 1/2", 17# @ 8354' w/ 1130 sxs	Surface	8172'-8194'
Chesapeake	Lotos C Federal 912	3001535356	Eddy	9 T24S R31E	Oil	Shut In	6/12/2007	8/10/2007	8358'	8298'	Delaware A	\square	13 3/8", 48# @ 925' w/ 760 sxs 8 5/8", 32# @ 4405' w/ 1150 sxs 5 1/2", 17# @ 8358' w/ 1100 sxs		5834'-5855' 6758'-6766' 7257'-7521' 7977'-8222'
	Lotos C Federal 905	3001532558				Producing	2/24/2003	4/7/2003					13 3/8", 48# @ 780' w/ 611 sxs 8 5/8", 32# @ 4390' w/ 1400 sxs	Surface	8050'-8192'
		000/507500		0 70 40 0045	0.1	0	7/10/0000		00571	7000			13 3/8", 48# @ 599' w/ 525 sxs 8 5/8", 24# & 32# @ 4335' w/ 1810 sxs		6305'-6317' 7030'-7086' 7936'-7946'
	Lotos Federal 4 Sundance 9 Federal 5	3001527593 3001527905		9 T24S R31E 9 T24S R31E	Oil	Producing Not Drilled	7/10/2003	8/1/2003	8257	7890'	Delaware	6305'-8138'	5 1/2",15.5# & 17# @ 8257' w/ 800 sxs	Sunace	0003-0130
	Cactus 16 3	3001527905		17 T24S R31E		Not Drilled									
	Mesquite 16 State 1	3001530226		16 T24S R31E		Not Drilled				1					

Tabulation of Wells

Item VI Well-bore schematics of all wells within the AOR follow this page

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CURRENT WELLBORE SCHEMATIC

WELL : SUNDANCE 16 STATE 1

OPERATOR : V-F PETROLEUM FIELD : POKER LAKE

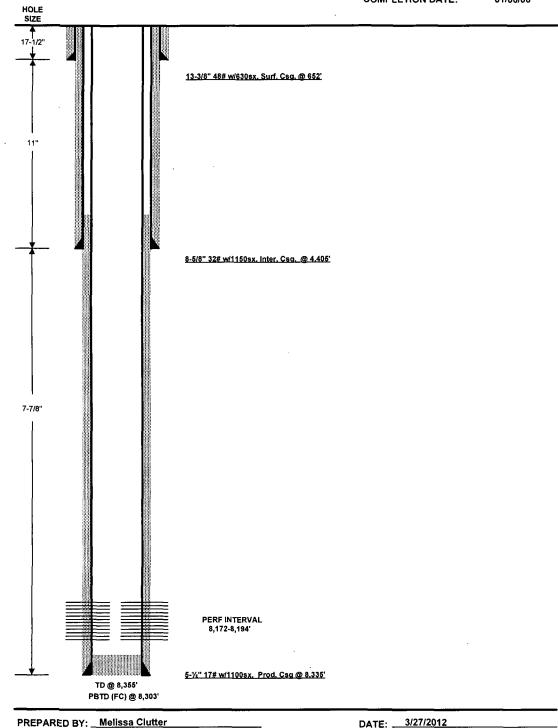
LOCATION : SEC. 16-T24S-R31E

COUNTY : EDDY STATE : NM

ELEVATION: GL - 3,488', RKB - 3,501'

API #:	30-015-34091
SPUD DATE:	04/30/2005
COMPLETION DATE:	01/06/06

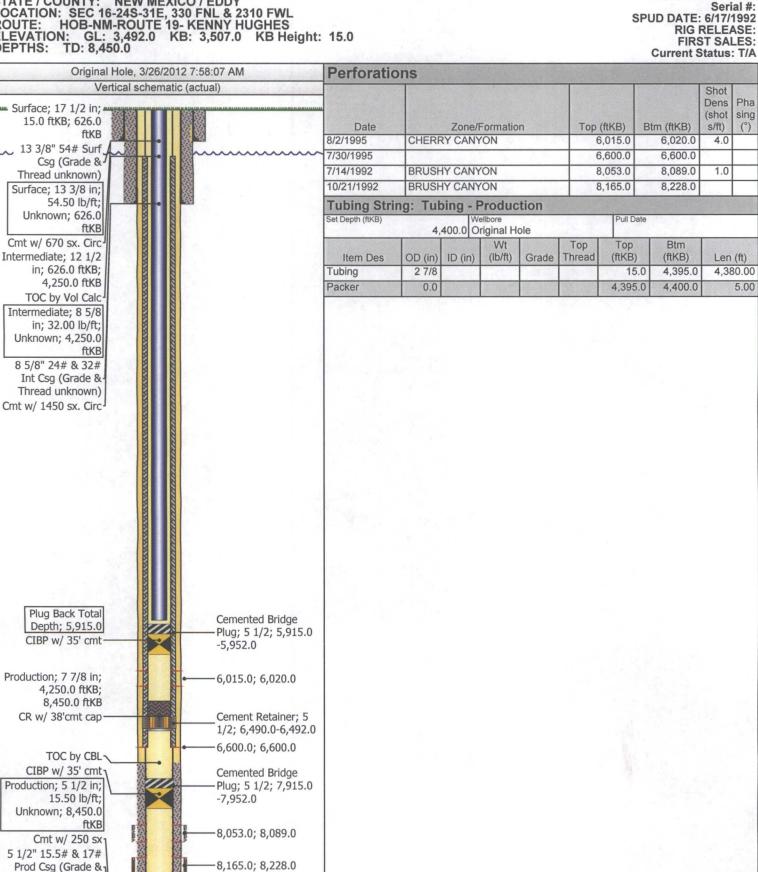
DATE: _____



UPDATED BY: _____

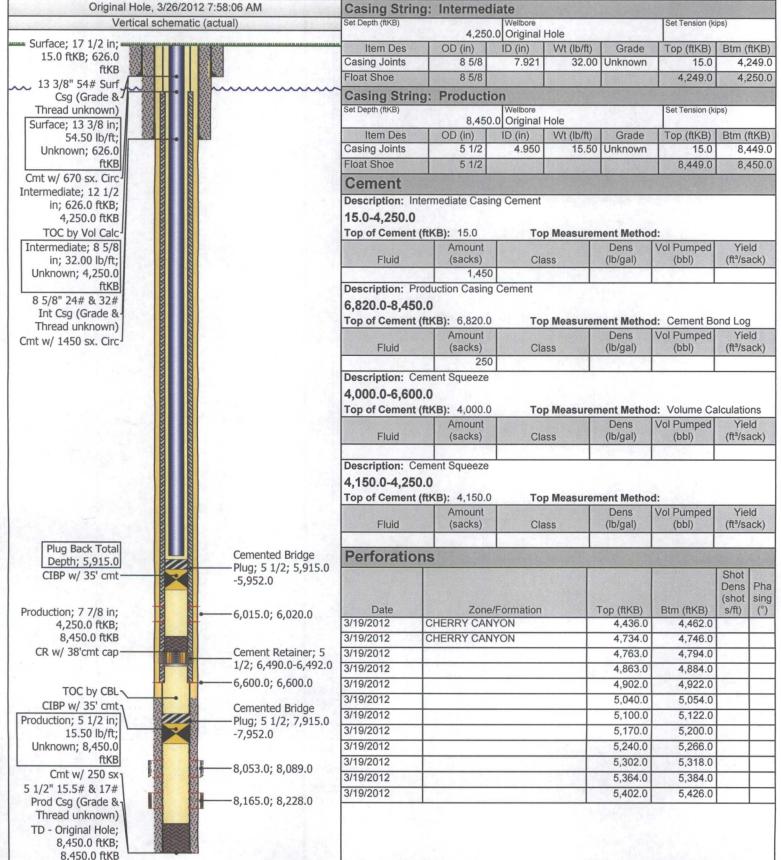
WELL (PN): CACTUS 16 STATE 1 (890839) FIELD OFFICE: CON - CONCHO RESOURCES FIELD: WILDCAT BRUSHY CANYON STATE / COUNTY: NEW MEXICO / EDDY LOCATION: SEC 16-24S-31E, 330 FNL & 2310 FWL ROUTE: HOB-NM-ROUTE 19- KENNY HUGHES ELEVATION: GL: 3,492.0 KB: 3,507.0 KB Height: 15.0 DEPTHS: TD: 8,450.0 TD: 8,450.0 DEPTHS:

Thread unknown) TD - Original Hole; 8,450.0 ftKB; 8,450.0 ftKB



Chesapeake API #: 3001527008

WELL (PN): CACTUS 16 STATE 1 (890839) FIELD OFFICE: CON - CONCHO RESOURCES FIELD: WILDCAT BRUSHY CANYON STATE / COUNTY: NEW MEXICO / EDDY LOCATION: SEC 16-24S-31E, 330 FNL & 2310 FWL ROUTE: HOB-NM-ROUTE 19- KENNY HUGHES ELEVATION: GL: 3,492.0 KB: 3,507.0 KB Height: 15.0 DEPTHS: TD: 8,450.0



WELL (PN): LOTOS C FEDERAL 912 (613357) FIELD OFFICE: FIELD: Poker Lake Prospect STATE / COUNTY: NEW MEXICO / EDDY LOCATION: SEC 9-24S-31E, 660 FSL & 1980 FEL ROUTE: HOB-NM-ROUTE 19- KENNY HUGHES ELEVATION: GL: 3,477.0 KB: 3,495.0 KB Height: 18.0 DEPTHS: TD: 8,358.0

VERTICAL - Original Hole, 3/26		Casing String	g: Intermedi	ate Wellbore		1. 19		Section 1	
Vertical schematic (actual)	Set Depth (ftKB)	Set Tension (ki						
Surface; 17 1/2 in;		Item Des	OD (in)	0 Original H	Wt (lb/ft)	Grade	Top (ftKB)	Btm (f	
18.0 ftKB; 925.0		Casing Joints	8 5/8	7.921	32.00	E CONCERCION INTERACIÓN CONTRACTOR	18.0	4,3	
ftKB		Float Collar	8 5/8	1.521	02.00	0-00	4,316.9	4,3	
t w/ 760 sx circ		Casing Joints	8 5/8	7.921	32.00	1.55	4,318.1	4,4	120.00
273 sx.		Float Shoe	8 5/8	1.521	52.00	5-55	4,403.8	4,4	
H-40			I RECORDER AND ADDRESS INC.	1070100000			4,403.0	4,4	05.
f Csg. /8 in;		Casing String Set Depth (ftKB)	g: Productio	Wellbore			Set Tension (ki	05)	
; H-40;	Tubing; 2 7/8;	our Dopur (inte)	8,358.0	Original H	Hole				
tKB	6,562.2; 6.50; N-80	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (f	tKE
		Casing Joints	5 1/2	4.892	17.00	N-80	18.0	6,3	314.
		DV Tool	5 1/2			1	6,314.4	6,3	316.
		Casing Joints	5 1/2	4.892	17.00	N-80	6,316.5	8,2	264.
S S		Float Collar	5 1/2			1	8,264.3	8,2	265.
		Casing Joints	5 1/2	4.892	17.00	N-80	8,265.4	8,3	356
		Float Shoe	5 1/2				8,356.6	8,3	
		Cement		State State State				Service State	
	E 024 0, E 042 0	and the second s					A State State		6
B B		Description: Inte		g Cement					
		925.0-4,405.0							
		Top of Cement (Тор	Measuren	nent Method			
		FLUI	Amount	01-		Dens	Vol Pumped	Yiel	
		Fluid	(sacks)	Cla	SS	(lb/gal)	(bbl)	(ft³/sa	
		Lead	950			11.90	all and the		2.4
		Tail Description: Pro	200		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14.80			1.3
	Seat Nipple; 2 7/8;	Top of Cement (Amount			Dens	d: Cement Bo	Yiel	ld
	6,563.3	Fluid	(sacks)	Cla	SS	(lb/gal) 13.20	(bbl)	(ft³/sa	00010000
	Tubing Sub; 2 7/8;	Lead	500					-	1.5
	6,567.3	Lead	200	<u> </u>		1.33			2.4
- X - X	ESP - Pump; 2 7/8; / 6,651.7	Tail	400			14.80		1	11.9
	ESP - Intake; 2 7/8;	Description: Cer							
	6,654.8	4,675,0-5,920							
	ESP - Intake; 2 7/8;	Top of Cement (Income And Income	Тор	Measuren	nent Metho			
	6,657.8	Fluid	Amount (sacks)	Cla	22	Dens (lb/gal)	Vol Pumped (bbl)	Yiel (ft ³ /sa	
	ESP - Motor; 2 7/8;	Fluid	(540KS)			(ib/gai)	(001)	(11/30	ion)
	6,702.0	Perforation							
		· onoration		provide the second second				Shot	
								Dens	Ph
								(shot	sir
		Date	Zone/	Formation		Top (ftKB)	Btm (ftKB)	s/ft)	(°
		8/1/2007				5,834.0	5,842.0	4.0	9
	and the second	8/1/2007				5,846.0	5,855.0	4.0	9
		7/26/2007				6,758.0	6,766.0	4.0	
		7/20/2007				7,257.0	7,521.0	1.0	
		7/14/2007	1993 Anna	The fail		7,977.0	8,222.0	1.0	
		Tubing String	a: Tubing - I	Producti	on				
		Set Depth (ftKB)	W	/ellbore	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Pull D	Date		
				riginal Hole	9				
						12 15 33			_
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00 sx1									
lole; tKB;									
ftKB									
,		A CONTRACTOR OF THE OWNER							

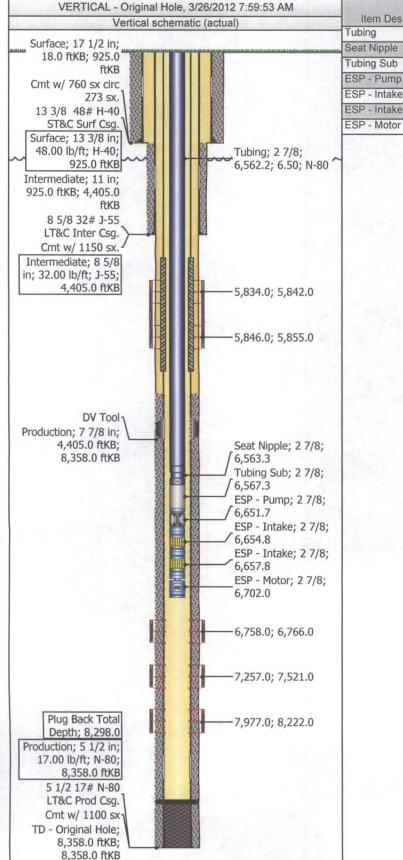
WELL (PN): LOTOS C FEDERAL 912 (613357) FIELD OFFICE: FIELD OFFICE: FIELD: Poker Lake Prospect STATE / COUNTY: NEW MEXICO / EDDY LOCATION: SEC 9-24S-31E, 660 FSL & 1980 FEL ROUTE: HOB-NM-ROUTE 19- KENNY HUGHES ELEVATION: GL: 3,477.0 KB: 3,495.0 KB Height: 18.0 DEPTHS: TD: 8,358.0

Len (ft)

Btm

(ftKB)

18.0 6,562.2 6,544.17



Seat Nipple Tubing Sub	2 7/8	CONTRACTOR OF T					
Tubing Sub	The second se	Contraction of the			6,562.2	6,563.3	1.10
	2 7/8	G	2.1.2.		6,563.3	6,567.3	4.00
ESP - Pump	2 7/8				6,567.3	6,651.7	84.46
ESP - Intake	2 7/8				6,651.7	6,654.8	3.05
ESP - Intake	2 7/8				6,654.8	6,657.8	3.05
ESP - Motor	2 7/8				6,657.8	6,702.0	44.17
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Wt

(lb/ft)

6.50 N-80

Grade

OD (in) ID (in)

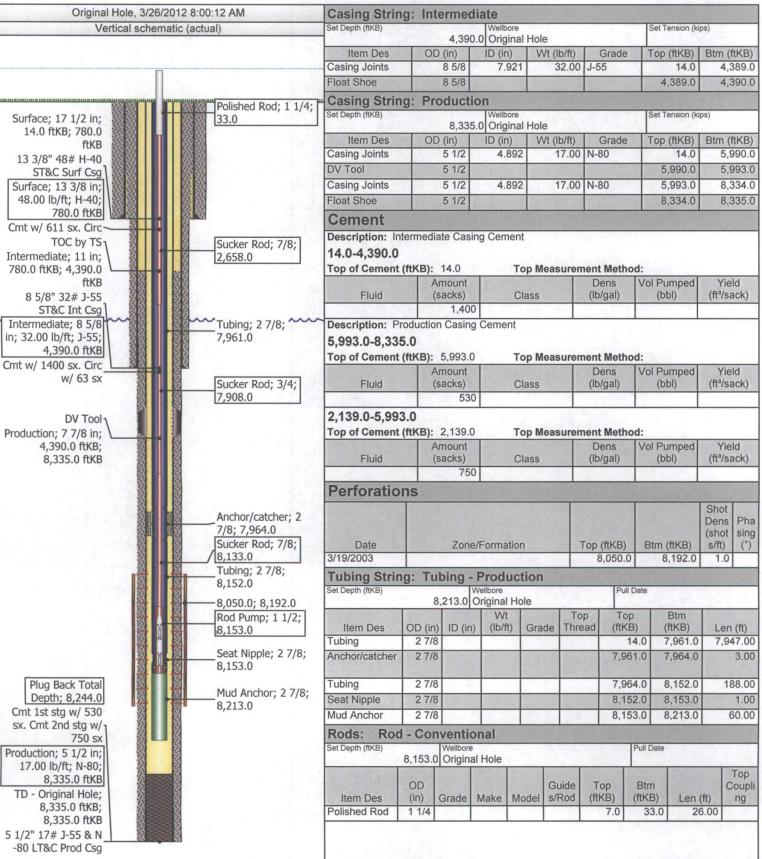
27/8 2.441

Тор

Thread

Тор (ftKB)

WELL (PN): LOTOS C FEDERAL 905 (890487) FIELD OFFICE: CON - CONCHO RESOURCES FIELD: SAND DUNES DELAWARE WEST STATE / COUNTY: NEW MEXICO / EDDY LOCATION: SEC 9-24S-31E, 660 FSL & 700 FEL ROUTE: HOB-NM-ROUTE 19- KENNY HUGHES ELEVATION: GL: 3,475.0 KB: 3,489.0 KB Height: 14.0 DEPTHS: TD: 8,335.0



Chesapeake

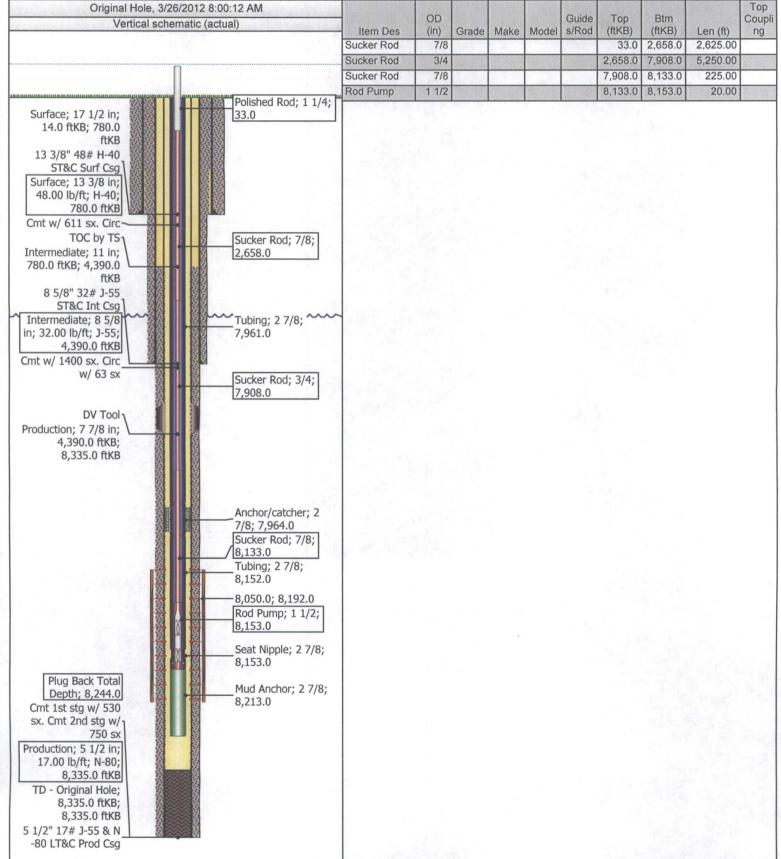
SPUD DATE: 2/24/2003 RIG RELEASE: 3/12/2003

Current Status: PRODUCING

API #: 3001532558 Serial #: 31001

FIRST SALES:

WELL (PN): LOTOS C FEDERAL 905 (890487) FIELD OFFICE: CON - CONCHO RESOURCES FIELD: SAND DUNES DELAWARE WEST STATE / COUNTY: NEW MEXICO / EDDY LOCATION: SEC 9-24S-31E, 660 FSL & 700 FEL ROUTE: HOB-NM-ROUTE 19- KENNY HUGHES ELEVATION: GL: 3,475.0 KB: 3,489.0 KB Height: 14.0 DEPTHS: TD: 8,335.0



WELL (PN): LOTOS FEDERAL 4 (890478) FIELD OFFICE: CON - CONCHO RESOURCES FIELD: W SAND DUNES DELAWARE STATE / COUNTY: NEW MEXICO / EDDY LOCATION: SEC 9-24S-31E, 2310 FSL & 2310 FEL ROUTE: HOB-NM-ROUTE 19- KENNY HUGHES ELEVATION: GL: 3,452.8 KB: 3,469.8 KB Height: 17.0 DEPTHS: TD: 8,257.0



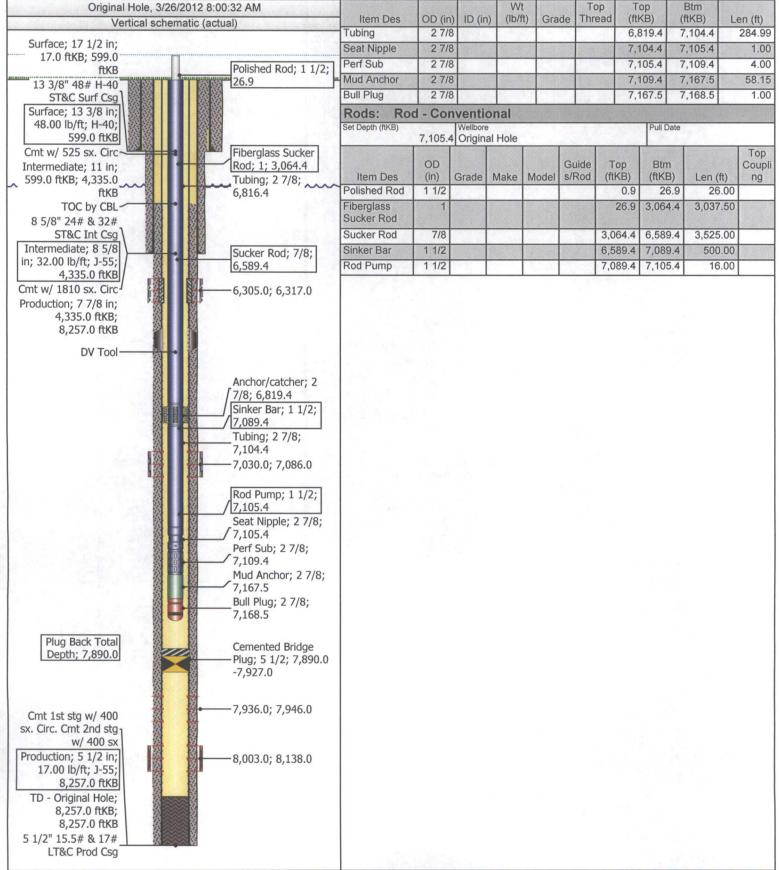
Original Hole, 3/26/2012		Casing Strin	g: Inte	rmedia							
Vertical schematic	(actual)	Set Depth (ftKB)		4 335 (Wellbore Origina	Hole			Set Tension (ki	ps)	
Surface; 17 1/2 in;		Item Des	OD		ID (in)	Wt (lb	/ft)	Grade	Top (ftKB)	Btm	(ftK)
17.0 ftKB; 599.0		Casing Joints		8 5/8	7.921	Contraction of the second	2.00	and the second	17.0		,334
ftKB	Polished Rod; 1 1/2;	Float Shoe	Sec. And and	8 5/8					4,334.0		,335
13 3/8" 48# H-40	26.9								4,004.0		,000
ST&C Surf Csg		Casing Strin	g: Pro	auctio	and the second sec	A States			I Cat Tanaian (hi	1	a Lint
Surface; 13 3/8 in;		Set Depth (ftKB)		8 257 (Wellbore Origina	Hole			Set Tension (ki	ps)	
48.00 lb/ft; H-40; 599.0 ftKB		Item Des	OD		ID (in)	Wt (lb.	/ft)	Grade	Top (ftKB)	Btm	(ftK
Cmt w/ 525 sx. Circ	Fiberglass Sucker	Casing Joints		5 1/2	4.892		7.00	SAN DOLAR STRUCTURE AND	17.0	and the part of the second second	,49
	Rod; 1; 3,064.4	DV Tool		5 1/2					6,497.0	1.1.1	,50
Intermediate; 11 in; 599.0 ftKB; 4,335.0	Tubing; 2 7/8;	Casing Joints	and muddelights	5 1/2	4.892	17	7.00	1-55	6,500.0		,25
ftKB	6,816.4	Float Shoe	and the factor	5 1/2	4.032	. 17	.00	5-55	8,256.0		,25
TOC by CBL	0,01011			5 1/2					0,250.0	0	,20
8 5/8" 24# & 32#	4	Cement									
ST&C Int Csg		Description: In	termediat	e Casing	g Cemen	t		(1995) 1997	Renter de ser		
Intermediate; 8 5/8	Sucker Rod; 7/8;	17.0-4,335.0									
n; 32.00 lb/ft; J-55;	6,589.4	Top of Cement	(ftKB):	17.0	Т	op Measu	ureme	ent Metho	d:		
4,335.0 ftKB			An	nount				Dens	Vol Pumped	Yi	eld
n; 32.00 lb/ft; J-55; 4,335.0 ftKB mt w/ 1810 sx. Circ roduction; 7 7/8 in; 4,335.0 ftKB;	6,305.0; 6,317.0	Fluid	225352 Back States	acks)	С	lass		(lb/gal)	(bbl)	(ft³/s	sac
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4,335.0 ftKB;		Description: Pr	oduction	Casing	Cement		1				
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DV Tool		Top of Cement		500 0	т	on Moser	iromo	ent Metho	d.		
		Top of Cement		nount	The second se	op measu		Dens	Vol Pumped	Vi	elo
	Anchor/catcher; 2	Fluid		acks)	С	lass		(lb/gal)	(bbl)	(ft³/s	
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	Sinker Bar; 1 1/2;	4,180.0-6,500	2.0				1	1.1.1.1	1		
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	Rod Pump; 1 1/2;			ueeze							
	/7,105.4	6,305.0-6,31									
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	7,105.4	Fluid		nount	~	1000		Dens	Vol Pumped		ielo
8 9 8	Perf Sub; 2 7/8;	Fluid	(Sa	acks) 150	U	lass		(lb/gal)	(bbl)	(ft³/s	sa
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	Mud Anchor; 2 7/8;	Perforatio	ns								
	7,167.5								Sector Read	Shot	
	Bull Plug; 2 7/8;									Dens	
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Diug Rock Total		Date 10/19/1995		Zone/I	ormation	1	10	6,305.0	6,317.0	s/ft)	
Plug Back Total Depth; 7,890.0	Cemented Bridge		-	-			-	7,030.0		1.0	_
Deput, 7,090.0	Plug; 5 1/2; 7,890.0	7/11/2003	1 1 1	1.1			-		7,086.0	a dealer and the	
沒一	-7,927.0	6/16/1994	-	the lite				7,936.0	7,946.0	3.0	4
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	7,936.0; 7,946.0	Tubing Strin	g: Tub	oing - F	Product	tion					
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. Circ. Cmt 2nd stg			7,	168.5 0	riginal Ho	ole				-	_
w/ 400 sx				15 (1.)	Wt		Тор				
Cmt 1st stg w/ 400 c. Circ. Cmt 2nd stg w/ 400 sx roduction; 5 1/2 in; 17 00 lb/ft: 155:	8,003.0; 8,138.0	Item Des	OD (in)	ID (in)	(lb/ft)	Grade	Threa			Le	
		Tubing	2 7/8		1	1.1.1			7.0 6,816.4	6,7	
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TD - Original Hole;				les Miller			antes -				
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5 1/2" 15.5# & 17# LT&C Prod Csg		1.00									
		and the second sec									

WELL (PN): LOTOS FEDERAL 4 (890478) FIELD OFFICE: CON - CONCHO RESOURCES FIELD: W SAND DUNES DELAWARE STATE / COUNTY: NEW MEXICO / EDDY LOCATION: SEC 9-24S-31E, 2310 FSL & 2310 FEL ROUTE: HOB-NM-ROUTE 19- KENNY HUGHES ELEVATION: GL: 3,452.8 KB: 3,469.8 KB Height: 17.0 DEPTHS: TD: 8,257.0



Serial #: SPUD DATE: 11/4/1993 RIG RELEASE: 7/10/2003 FIRST SALES:

Current Status: PRODUCING



District 1 1625 N. French D. Phone: (373) 393- District 11 811 S. First St., A Phone: (573) 748- District 11 1000 Rio Brazos J Phone: (505) 334- District 11V 1220 S. St. Franci Phone: (505) 476-	5161 Fax: (57 nešia, NM 883 1283 Fax: (57 load, Aytee, N 5178 Fax: (50 1 Dr., Santa Fe	(\$):393-0720 210 5):748-9720 5):334-6170 5):334-6170 5):334-6170			T		Mineral Oil Cons 1220 Sou	ervation	tural Res Division ancis Dr.		ės -				Form C-101 Revised August 1, 2011 Permit
AP	PLICA	TION		PERMI erator Name			LL, RE	-ENTE	R, DEE	PEN	I, PLUG		CK, O		DD A ZONE
Chesapea P.O. Box	ke Oper	ating, Inc		Al al constituents and	the second	1.1						14	7179		
Oklahom	a City, C	OK 7315	4								'20	211	API Nur		
* Prope	ity Code			·			² Property N	ame		·		01: T	5-27008	• Wel	No
300049 CACTUS 16 STATE										1					
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UL - Lot	Section	Township		Range	1.0	t Idn	Fect fr		"N/S Line	1	Feet From	1	E/W Lin		County
C.	16	24S		31E			330' NORTH 2310'		lu	WEST		EDDY			
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SWD; DEL	WARE		<u> </u>		•		Pool In	iormat	1011	;-					· · · · · · · · · · · · · · · · · · ·
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* Work	Туре		10	Well Type		'n	"Cable/R	otary	í	^{op} .Le	ase Type		1		d Level Elevation
E Mul	tiole	<u> </u>	- 15 Pr	oposed Depth		R	¹⁶ Format	ion	<u>.</u> S	¹⁷ C	ontractor		3492		Spud Date
No		591	0'-PB				WARE	· · · ·	TBD						
Depth to Groun	I water No	o Record		Dista	nce from	nearest	fresh water	^{well} >2 M	iles		Distanc	c to i	nearest sur	face w	^{ater} 10.9 miles
				19	Prop	osed	Casing	and Ce	ment Pr	ogra			· · · · ·		
Турс	Hol	e Size	Cás	ing Size		sing W		T	ting Depth		Sacks of	Con	1001		Éstimated TOC
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· .	12 1/4		5/8"		24# &	32#		4250'			1450 sxs			0'	
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<u>,</u>					<u> </u>				itional (,				
Please find NMOCD's (our inten 2-102, m	t to conv aps, and	ert to (CLE	this well to Z) C-144	o SWI pit per). Atta mit. S	ched is pi WD order	ocedure t is require	o convert ed to injec	, actu ct any	al and prop fluids.	oose	d well t	oore o	liagram,
	· · · · · · · · · · · · · · · · · · ·			······································	Propo	sed E	Blowout	Preven	tion Pro	gra	m	÷÷	· · · · · ·		

Турс	Working Pressure	Test Pressure	Manufacturer
· · · · · · · · · · · · · · · · · · ·	····	·	

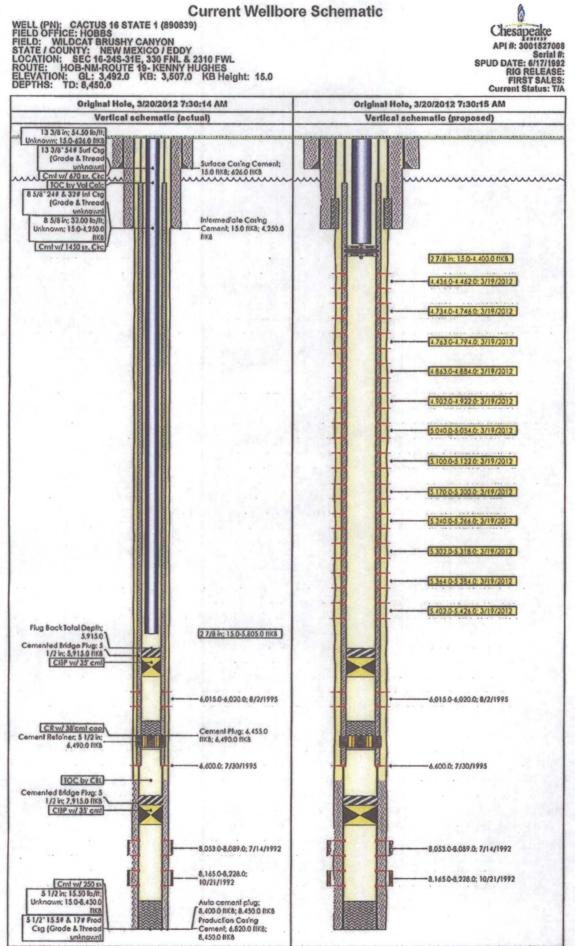
I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines., a general permit M , or an (affached) alternative. OCD-approved plan		OIL CONSERVATION DIVISION		
Title: Regulatory Specialist II		Approved Date:	Expiration Date:	
E-mail Address: bryan.arrant		· · · · · ·	an a	
Date: 04/06/2012	Phone: (405)935-3782	Conditions of Approval Attached		

CACTUS 16 STATE 1

Unit C of Section 16, T-24-S R-31-E 330' FNL & 2310' FWL, NMPM Eddy County, NM API# 30-015-27008

Cactus R/C Procedure - Convert to SWD

- 1. RU pump truck. Load hole and pressure up to test casing integrity.
- 2. RUWL. Run CBL from 5950' (CIBP) to 4150' or the TOC. RD WL.
- 3. RU PU. Squeeze to ensure cement is a minimum of 100' into the 8-5/8" casing at 4250'.
- 4. TIH w/ bit to drill out cement and clean-up wellbore down to 5950' (CIBP). TOH.
- 5. Perforate and acidize Bell/Cherry Canyon. Proposed perforation intervals are below.
 - 4436'-62'
 - 4734'-46'
 - 4763'-94'
 - 4863'-84'
 - 4902'-22'
 - 5040'-54'
 - 5100'-22'
 - 5170'-200'
 - 5240'-66'
 - 5302'-18'
 - 5364'-84'
 - 5402'-26'
- 6. TIH w/ injection tubing and packer. Set packer within 100' of top perforation.
- 7. Load backside and run MIT. Begin injection.



Page: 1/1

Report Printed: 3/20/2012

DISTRICT I 1025 N. French Dr., Hobbs, NM 80240 Phone (576) 503-0161 Fax: (576) 503-0720 DISTRICT II 011 S. First St., Artesia, NM 80210 Phone (576) 746-1233 Fax: (576) 746-9720 DISTRICT III 1000 Rio Brazos Rd., Artec, NM 87410 Phone (503) 535-6175 Fax: (553) 534-6170 DISTRICT IV 1220 8. Bi. Francis Dr., Santa Fe, NM 87603 Phone (504) 129-3469 Will (501) 475-5492

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State of New Mexico Energy, Minerals and Natural Resources Department

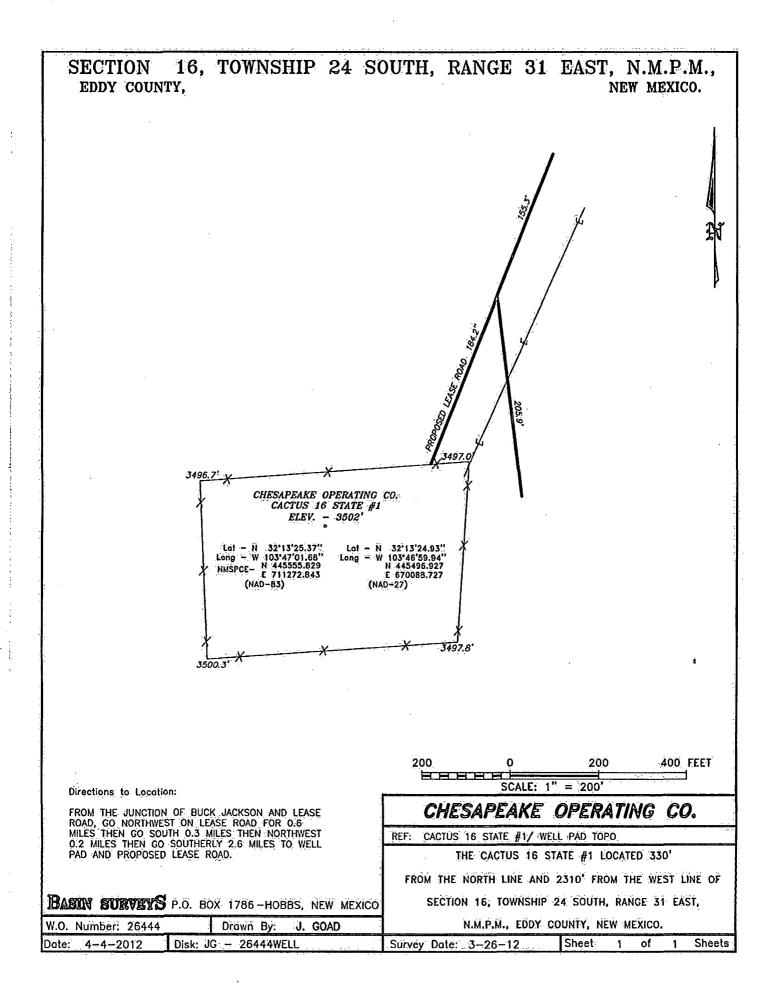
OIL CONSERVATION DIVISION

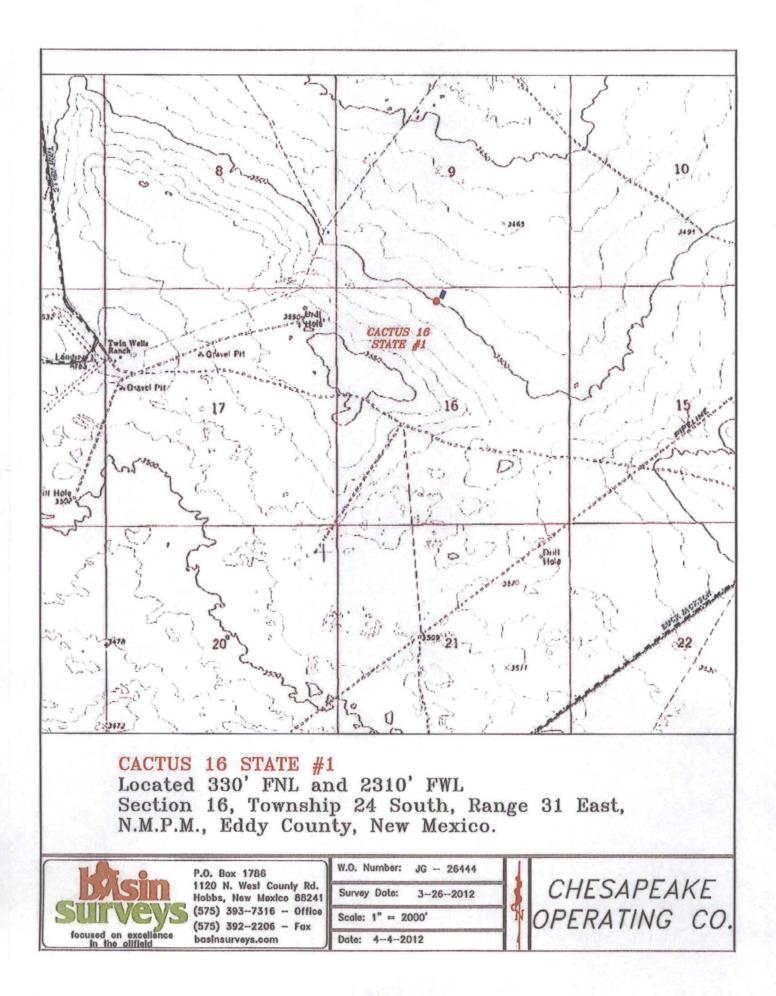
Form C-102 Revised August 1, 2011

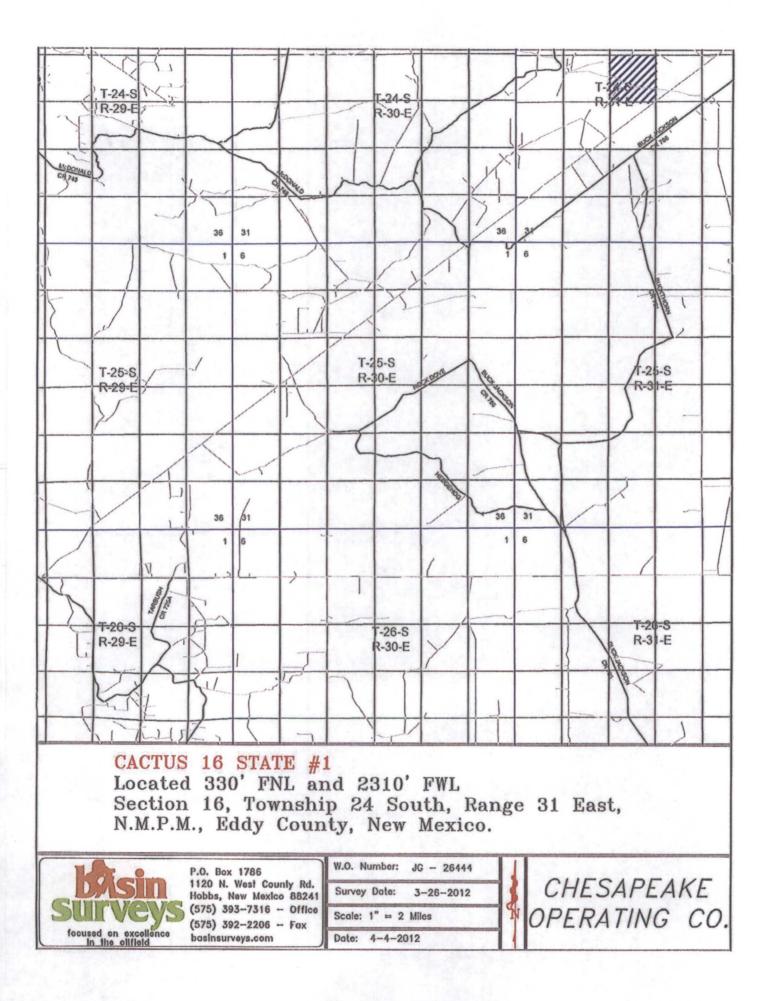
Submit one copy to appropriate District Office

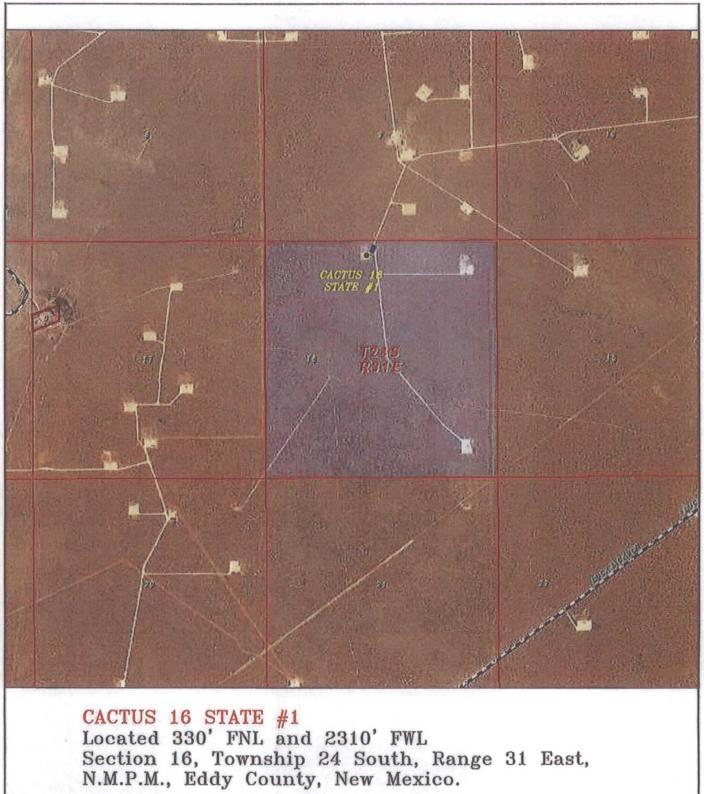
000 Rio Brazos Rd.; Aztec, NM 8 hous (603) 334-6176 Far (503) 534-6170 DISTRICT IV 1230 8. 81, Francis Dr.; Santa Pe, NM Phone (603) 478-3460 Far (603) 478-3458	87603	Santa Fe, l	h St. Francis Dr. New Mexico 87505 ACREAGE DEDICATI	ON PLAT	AMENDED	REPORT
API Number 30-015-27008		Pool Code 96100	· · · · · · · · · · · · · · · · · · ·	Pool Name SWD; DELAWAI	ŖĚ	
Property Code 300049			rty Name 16 STATE	· · · · · · · · · · · · · · · · · · ·	Well Number 1H	
OGRID No. 147179			tor Name OPERATING CO.		Eleva 350	• 1.5%
the second s		Surfac	e Location			
	Township Range 24 S 31 E	Lot Idn Feet from		Feet from the 2310	Enst/West line WEST	County EDDY
	Bottom	Hole Location I	Different From Sur	face	<u>I</u>	<u> </u>
UL or lot No. Section T	Township Range	Lot Idn Feet fro		Feet from the	East/West line	County
Dedicated Acres Joint or I	Infill Consolidation (Code Order No.	SWD Order Pending	· · · · · · · · · · · · · · · · · · ·		
NO ALLOWABLE WIL			TION UNTIL ALL INTER BEEN APPROVED BY		CEN CONSOLIDA	ATED
		SURFACE LOCATH Loid - N 32'13'25 Long - W 103'47'01 NMSPCE- E 711272. (NAD-83) Lot - N 32'13'24. Long - W 103'46'59 NMSPCE - E 670088. (NAD-27)	.37" .68" 829 843 93"	I hereby cer contained hereby this organizatio indication or has this location or has this location or has this location or has this location by or to a volunta compulsory pool the division. Bry Printed Nam Email Address SURVEYO I hereby certify on this plat we actual surveys supervison on correct to th Date Surveys Signature & Plotbestaria W.C. Certificate Na	an Arrant bryan.arrant@ch bryan.arrant@ch br c CERTIFICAT y that the well locat as plotted from field made by me or d that the same te beat te te same te te	action lete to and that ting and that ting an the bole well at with an interest, or a entered by /06/2012 .Date

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W.O. Number: JG - 26444 Scale: 1" = 2000' YELLOW TINT – USA LAND BLUE TINT – STATE LAND NATURAL COLOR – FEE LAND

CHESAPEAKE

OPERATING CO.

District I	
1625 N. French Dr., Hobbs, NM 8824	0
District II	
811 S. First St., Artesia, NM 88210	
District III	
1000 Rio Brazos Road, Aztec, NM 87	410
District IV	2-22-
1220 S. St. Francis Dr., Santa Fe, NM	87505

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State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe. NM 87505

For closed-loop systems that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, submit to the appropriate NMOCD District Office.

Closed-Loop System Permit or Closure Plan Application (that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

Type of action: X Permit Closure

Instructions: Please submit one application (Form C-144 CLEZ) per individual closed-loop system that only use above ground steel tanks or haul-off bins and pr	
Please be advised that approval of this request does not relieve the operator of liability environment. Nor does approval relieve the operator of its responsibility to comply w	should operations result in pollution of surface water, ground water or the
Derator: Chesapeake Operating, Inc.	OGRID#: 147179
Address: P.O. Box 18496 Oklahoma City, OK 73154	
Facility or well name: CACTUS 16 STATE 1	
	Permit Number:
U/L or Qtr/Qtr C Section 16 Township 24 S	The second secon
Center of Proposed Design: Latitude 32.223660 Lor	
Surface Owner: Sectors State Private Tribal Trust or Indian Allou	and the second
a: X Closed-loop System: Subsection H of 19.15:17.11 NMAC	
Operation: Drilling a new well X Workover or Drilling (Applies to activiti	es which require prior approval of a permit or notice of intent) P&A
X Above Ground Steel Tanks or I Haul-off Bins	
3.	
Signs: Subsection C of 19:15.17.11 NMAC	· ·
12"x 24", 2" lettering, providing Operator's name, site location, and emerge	ncy telephone numbers
Signed in compliance with 19.15.16.8 NMAC	
4. Closed-loop Systems Permit Application Attachment Checklist: Subsection	B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application.	Please Indicate, by a clieck mark in the box, that the documents are
attached. X Design Plan - based upon the appropriate requirements of 19.15.17.11 N	MAC
Operating and Maintenance Plan - based upon the appropriate requirement	its of 19.15.17.12 NMAC
Closure Plan (Please complete Box 5) - based upon the appropriate requi	ements of Subsection C of 19,15,17.9 NMAC and 19,15,17,13 NMAC
Previously Approved Design (attach copy of design) API Number:	
Previously Approved Operating and Maintenance Plan API Number:	·
Waste Removal Closure For Closed-loop Systems That Utilize Above Grou	ul Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC)
Instructions: Please indentify the facility or facilities for the disposal of liquid facilities are regulred.	ls, drilling fluids and drill cultings. Use attachment if more than two
Disposal Facility Name: CRI	Disposal Facility Permit Number:
Disposal Facility Name: SUNDANCE DISPOSAL	Disposal Facility Permit Number: NM-01-0003
Will any of the proposed closed-loop system operations and associated activities Yes (If yes, please provide the information below) X No	
Required for impacted areas which will not be used for future service and opera	(ได้ที่ระ
Soil Backfill and Cover Design Specifications based upon the appropr	ate requirements of Subsection H of 19.15.17.13 NMAC
Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	on 1 of 19.15.17.13 NMAC
.6.	
Operator Application Certification: I hereby certify that the information submitted with this application is true, acci	internet and will be to the half of the tribulation and will be
Name (Print): Bryan Arrant	Title: Regulatory Specialist II
	The inclusion of the in
Signature: 1 Juge Africa ff	Date:04/06/2012
e-mail address: bryan.arrant@chk.com	Telephone: (405)935-3782
Form C-144 CLEZ Oil Conservati	

⁷ <u>OCD Approva</u> l: Permit Application (including closure plan) Closure I	lan (only)
OCD Representative Signature:	Approval Date:
Title:	OCD Permit Number:
8. <u>Closure Report (required within 60 days of closure completion)</u> : Subsection Instructions: Operators are required to obtain an approved closure plan prior The closure report is required to be submitted to the division within 60 days of section of the form until an approved closure plan has been obtained and the c	to implementing any closure activities and submitting the closure report. the completion of the closure activities. Please do not complete this losure activities have been completed.
	Closure Completion Date:
9. <u>Closure Report Regarding Waste Removal Closure For Closed-loop System</u> Instructions: Please indentify the facility or facilities for where the liquids, dri two facilities were utilized.	
Disposal Facility Name:	Disposal Facility Permit Number:
Disposal Facility Name:	
Were the closed-loop system operations and associated activities performed on o Vcs (If ycs, please demonstrate compliance to the items below)	in areas that will not be used for future service and operations?
Required for impacted areas which will not be used for future service and operate Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	lön <u>s</u> :
10. Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure requires	report is true, accurate and complete to the best of my knowledge and nents and conditions specified in the approved closure plan.
Name (Print):	Title:
Signature:	,
e-mail address:	Telephone:

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	1		709 W. INDIANA MIDLAND, TEXAS 7970 FAX (432) 682-8819
SULT OF WATE	R ANALYSES		
	LABORATORY NO.		2-59
	SAMPLE RECEIVED		28-12
*****	RESULTS REPORTED	4-10-12	
	LEASE Lotus	s 905	
			····
COUNTY	STATE		·····
26-12,		LOTOS C	C FEDERAL 905
		— Édd	ly Co., NM
			015-32558
		50	010-02000
CAL AND PHYS			
NO. 1	NO. 2	NO. 3	NO. 4
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CACTUS 16 STATE 1

Unit C of Section 16, T-24-S R-31-E 330' FNL & 2310' FWL, NMPM Eddy County, NM API# 30-015-27008

Cactus R/C Procedure - Convert to SWD

- 1. RU pump truck. Load hole and pressure up to test casing integrity.
- 2. RU WL. Run CBL from 5950' (CIBP) to 4150' or the TOC. RD WL.
- 3. RU PU. Squeeze to ensure cement is a minimum of 100' into the 8-5/8" casing at 4250'.
- 4. TIH w/ bit to drill out cement and clean-up wellbore down to 5950' (CIBP). TOH.
- 5. Perforate and acidize Bell/Cherry Canyon. Proposed perforation intervals are below.
 - 4436'-62'
 - 4734'-46'
 - 4763'-94'
 - 4863'-84'
 - 4902'-22'
 - 5040'-54'
 - 5100'-22'
 - 5170'-200'
 - 5240'-66'
 - 5302'-18'
 - 5364'-84'
 - 5402'-26'
- 6. TIH w/ injection tubing and packer. Set packer within 100' of top perforation.
- 7. Load backside and run MIT. Begin injection.

Item IX

WATER COLUMN/ AVERAGE DEPTH TO WATER

New Mexico Office of the State Engineer Water Column/Average Depth to Water				
	(quarters are 1=NW 2= (quarters are smallest to	IE 3=SW 4=SE) largest) (NAD83 UTM in meters)		
	No records foun	d.		
		,		
asin/County Search:				
Basin: Carlsbad	County: Eddy			
ITMNAD83 Radius Search	(in meters):			
Easting (X): 641603	Northing (Y): 3565873	Radius: 3520		

3/6/12 10:28 AM

Item XI

http://nmwrrs.ose.state.nm.us/nmwrrs/ReportProxy?queryData=%7B%22report%22%3A%... 3/6/2012

Item XIII Proof of Notice

Cactus 16 State 1 Unit C, of Section 16, T-24-D R-31-E Eddy Co., NM API# 30-015-27008

Surface Owner: State of New Mexico Land Office 310 Old Santa Fe Trail Santa Fe, NM 87501

Grazing Lessee: J R Engineering & Construction PO Box 487 Carlsbad, NM

Leasehold Operators within 1/2 mile of proposed injection well:

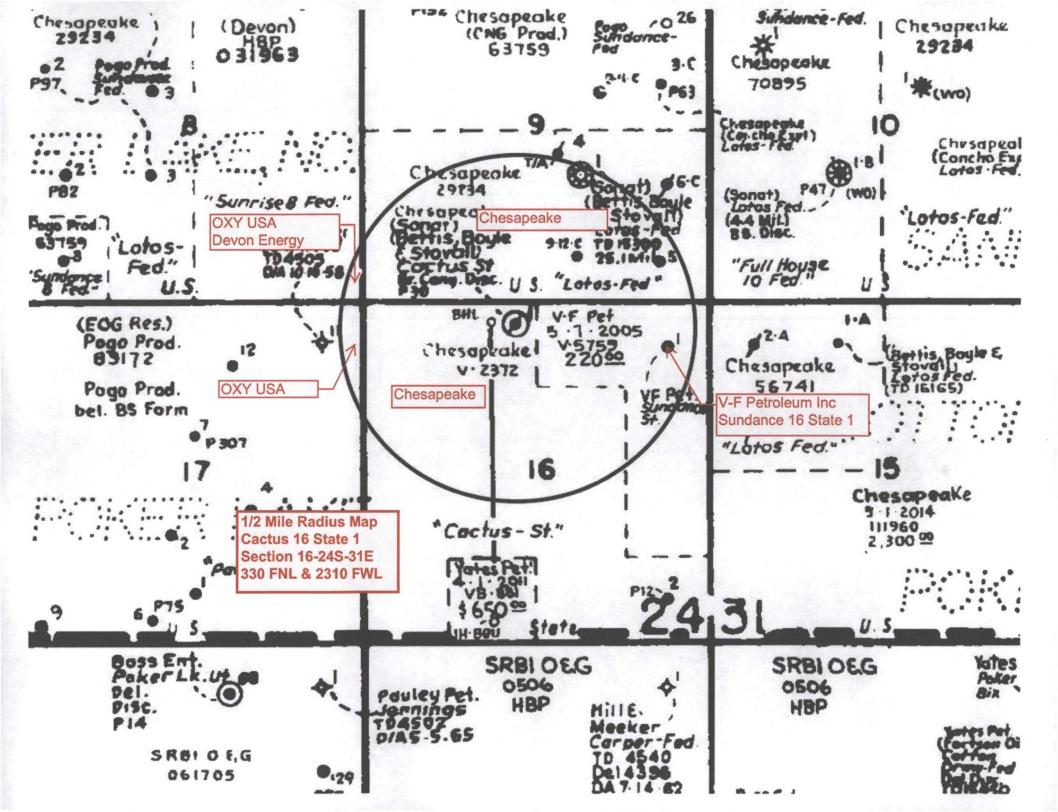
N/2 NE/4, SE/4 NE/4 Section 16-24S-31E V-F Petroleum Inc. PO Box 1889 Midland, TX 79702

SE/4 SE/4 Section 8-24S-31E OXY USA Inc PO Box 4294 Houston, TX 77210

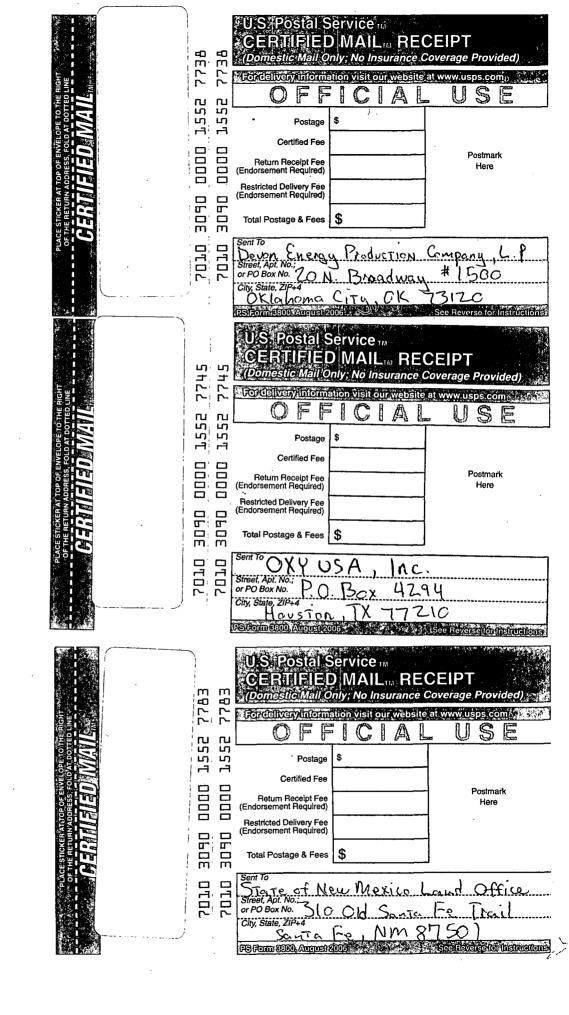
Devon Energy Production Company LP 20 N. Broadway #1500 Oklahoma City, OK 73102

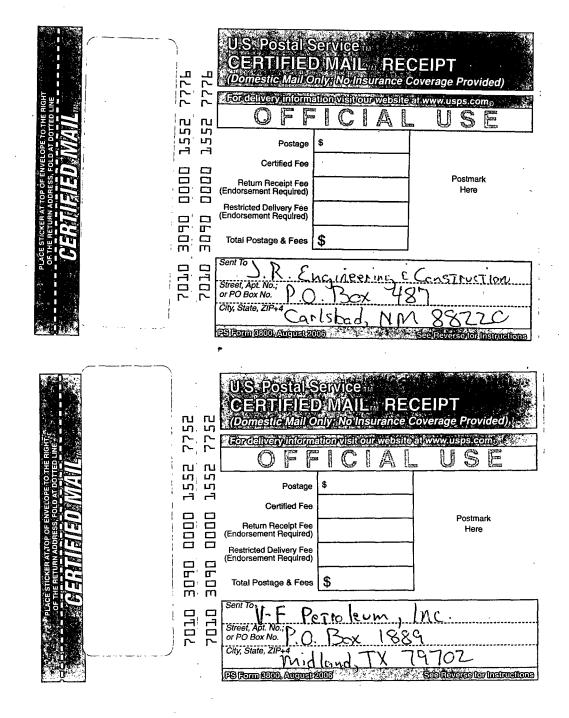
NE/4 NE/4 Section 17-24S-31E OXY USA Inc PO Box 4294 Houston, TX 77210

> Map showing offset leasehold operators, affidavit of publication, and copies of certified return receipts that were mailed follow this page.



Affidavit of Publication	Copy of Publication:
STATE OF NEW MEXICO	LEGAL NOTICE
County of Eddy:	Chesapeake Operating, Inc. intends to covert the following well to disposal: CAC- TUS 16 STATE 1. This well is located in Unit C of Section 16, Township 24 South, Range 31 East, 330' FNL & 2310' FWL, Eddy County, NM and is located approxi-
Danny Scott A anny Least	mately 19 miles east-southeast of Loving, NM. The formation to be disposed is into the Bell and Cherry Canyon sands of the Delaware Mountain Group through perforations 4436'-5426'.
being duly sworn, says that he is the Publisher	The average disposal rate is expected to be 3000 BWPD with a maximum disposal rate of 5000 BWPD. The injection pressure is expected to be 500 psig with a maximum pressure to be 887 psig.
of the Artesia Daily Press, a daily newspaper of general	Question or objections can be addressed to Chesapeake Operating, Inc. 6100 N. Western Ave., Oklahoma City, OK 73118 or call Bryan Arrant at: 405-935-3872. Any interested party that have objections or request a hearing
circulation, published in English at Artesia, said county	must be filed within 15 days of this notice to the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, NM 87505
and state, and that the hereto attached	Published in the Artesia Daily Press, Artesia, N.M., March 28, 2012. Legal No 22078.
Legal Notice	
was published in a regular and entire issue of the said	
Artesia Daily Press, a daily newspaper duly qualified	
for that purpose within the meaning of Chapter 167 of	
the 1937 Session Laws of the state of New Mexico for	
1 Consecutive weeks/days on the same	
day as follows:	
First Publication March 28, 2012	
Second Publication	·
Third Publication	
Fourth Publication	
Fifth Publication	
Subscribed and sworn to before me this	
28th day of March 2012	
OFFICIAL SEAL Latisha Romine NOTARY PUBLIC-STATE OF NEW MEXICO My commission expires: 5/12/2015	A.
Latisha Romine Notary Public, Eddy County, New Mexico	· · ·







April 13, 2012

CERTIFIED MAIL RETURN RECEIPT REQUESTED

J R Engineering & Construction P.O. Box 487 Carlsbad, NM

Re: Application for administrative approval to dispose of the salt water in the CACTUS 16 STATE 1 well Located in Unit C, of Section 16, T-24-S R-31-E 330'FNL & 2310' FWL, NMPM Eddy Co., New Mexico

To Whom It May Concern:

Please find a copy of the C-108 application for Chesapeake Operating, Inc. for salt water disposal.

This application is being provided to you as proof of notice upon which the subject well is located as you are identified as a grazing lessee. If you object to this application, your objection must be filed in writing with the Oil Conservation Division which is located at 1220 South Saint Francis Dr., Santa Fe, NM. 87505 within 15 days of the date of this letter.

If there are no objections, the Division may approve this application. Please call or email me if I can answer and questions or concerns you may have.

Sincerely,

un hus

Bryan Arrant Regulatory Specialist II

405.935.3782 bryan.arrant@chk.com



April 13, 2012

CERTIFIED MAIL RETURN RECEIPT REQUESTED

V-F Petroleum, Inc. P.O. Box 1889 Midland, TX 79702

Re: Application for administrative approval to dispose of the salt water in the CACTUS 16 STATE 1 well. Located in Unit C, of Section 16, T-24-S R-31-E 330'FNL & 2310' FWL, NMPM Eddy Co., New Mexico

To Whom It May Concern:

Please find a copy of the C-108 application for Chesapeake Operating, Inc. for salt water disposal.

This application is being provided to you as proof of notice upon which the subject well is located as you are identified as an offset operator. If you object to this application, your objection must be filed in writing with the Oil Conservation Division which is located at 1220 South Saint Francis Dr., Santa Fe, NM. 87505 within 15 days of the date of this letter.

If there are no objections, the Division may approve this application. Please call or email me if I can answer and questions or concerns you may have.

Sincerely.

Bryan Arrant **Regulatory Specialist II**

405.935.3782 bryan.arrant@chk.com



April 13, 2012

<u>CERTIFIED MAIL</u> <u>RETURN RECEIPT REQUESTED</u>

OXY USA Inc. P.O. Box 4294 Houston, TX 77210

Re: Application for administrative approval to dispose of the salt water in the CACTUS 16 STATE 1 well. Located in Unit C, of Section 16, T-24-S R-31-E 330'FNL & 2310' FWL, NMPM Eddy Co., New Mexico

To Whom It May Concern:

Please find a copy of the C-108 application for Chesapeake Operating, Inc. for salt water disposal.

This application is being provided to you as proof of notice upon which the subject well is located as you are identified as an offset operator. If you object to this application, your objection must be filed in writing with the Oil Conservation Division which is located at 1220 South Saint Francis Dr., Santa Fe, NM. 87505 within 15 days of the date of this letter.

If there are no objections, the Division may approve this application. Please call or email me if I can answer and questions or concerns you may have.

Sincerely up And

Bryan Arrant Regulatory Specialist II

405.935.3782 bryan.arrant@chk.com



April 13, 2012

<u>CERTIFIED MAIL</u> RETURN RECEIPT REQUESTED

Devon Energy Production Company, LP 20 N: Broadway #1500 Oklahoma City, OK 73102

Re: Application for administrative approval to dispose of the salt water in the CACTUS 16 STATE 1 well. Located in Unit C, of Section 16, T-24-S R-31-E 330'FNL & 2310' FWL, NMPM Eddy Co., New Mexico

To Whom It May Concern:

Please find a copy of the C-108 application for Chesapeake Operating, Inc. for salt water disposal.

This application is being provided to you as proof of notice upon which the subject well is located as you are identified as an offset operator. If you object to this application, your objection must be filed in writing with the Oil Conservation Division which is located at 1220 South Saint Francis Dr., Santa Fe, NM. 87505 within 15 days of the date of this letter.

If there are no objections, the Division may approve this application. Please call or email me if I can answer and questions or concerns you may have.

Sincerely,

And Bryan Arrant

Regulatory Specialist II

405.935.3782 bryan.arrant@chk.com

> Chesapeake Energy Corporation P.O. Box 18496 • Oklahoma City, OK 73154-0496 • 6100 N. Western Avenue • Oklahoma City, OK 73118 405-848-8000



April 13, 2012

<u>CERTIFIED MAIL</u> <u>RETURN RECEIPT REQUESTED</u>

State of New Mexico Land Office 310 Old Santa Fe Trail Santa Fe, NM 87501

Re: Application for administrative approval to dispose of the salt water in the CACTUS 16 STATE 1 well. Located in Unit C, of Section 16, T-24-S R-31-E 330'FNL & 2310' FWL, NMPM Eddy Co., New Mexico

To Whom It May Concern:

Please find a copy of the C-108 application for Chesapeake Operating, Inc. for salt water disposal.

This application is being provided to you as proof of notice upon which the subject well is located as you are identified as an offset operator. If you object to this application, your objection must be filed in writing with the Oil Conservation Division which is located at 1220 South Saint Francis Dr., Santa Fe, NM. 87505 within 15 days of the date of this letter.

If there are no objections, the Division may approve this application. Please call or email me if I can answer and questions or concerns you may have.

Sincerely, Brvan Arrant

Regulatory Specialist II

405.935.3782 bryan.arrant@chk.com

> Chesapeake Energy Corporation P.O. Box 18496 • Oklahoma City, OK 73154-0496 • 6100 N. Western Avenue • Oklahoma City, OK 73118 405-848-8000

Jones, William V., EMNRD

 From:
 Bryan Arrant [bryan.arrant@chk.com]

 Sent:
 Friday, April 27, 2012 11:55 AM

 To:
 Jones, William V., EMNRD

 Subject:
 CACTUS 16 STATE 1 (C-108 3001527008; Certified Mail)

 Attachments:
 20120427123222482.pdf; 20120427124034124.pdf

Will,

At this time we have not received back the certified return receipts, green cards I sent the C-108s on 4/14/2012.

I need to see if the query I ran through USPS.COM will be acceptable? Maybe they just haven't cycled back yet.

The other attachment is a letter from the SLO acknowledging they received the C-108.

Thanks, Bryan Arrant Regulatory Specialist II Chesapeake Energy Corporation Office: (405) 935-3782 Mobile: (903) 263-8984 Fax: (405) 849-3782 E-mail: bryan.arrant@chk.com

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YOUR LABEL NUMBER	SERVICE	STATUS OF YOUR ITEM	DATE & TIME	LOCATION	FEATURES
70103090000015527783		Delivered	April 16, 2012, 11:40 am	SANTA FE, NM 87501	Certified Mail"
Hide Dotalis		Processed through USPS Sort Facility	Apřil 15, 2012, 1:53 am	ALBUQUERQUE, NM 8710	1
7010309000015627745		Delivered	April 16, 2012, 4:13 am	HOUSTON, TX 77210	Certified Mail
Hide Details		Notice Left	April 16, 2012; 3:41 am	HOUSTON, TX 77210	
70 1030900000 15527738		Delivered	April 16, 2012, 10:24 am	OKLAHOMA CITY, OK 73102	Certified Mail
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		Processed through USPS Sort Facility	April 14, 2012, 6:09 am	OKLAHOMA CITY, OK 73107	
70103090000015527752		Delivered	April 17, 2012, 11:06 am	MIDLAND, TX 79702	Certified Mail
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		Depart USPS Sort Facility	April 16, 2012	MIDLAND, TX 79711	
		Processed through USPS Sort Facility	Apřil 15, 2012, 10:41 pm	MIDLAND, TX 79711	
70103090000016527776		Delivered	April 17, 2012, 12:24 pm	CARLSBAD, NM 88220	Certified Mail
Hide Details		Notice Left	April 16, 2012, 9:36 am	CARLSBAD, NM 88220	
		Arrival al Unit	April 16, 2012; 7:32 am	CARLSBAD, NM 88220	
		Processed through	April 15, 2012; 7:04 pm	ALBUQUERQUE, NM 8710	1

GET EMAIL UPDATES PRINT DETAILS

Check on Another Item What's your label (or receipt) number?

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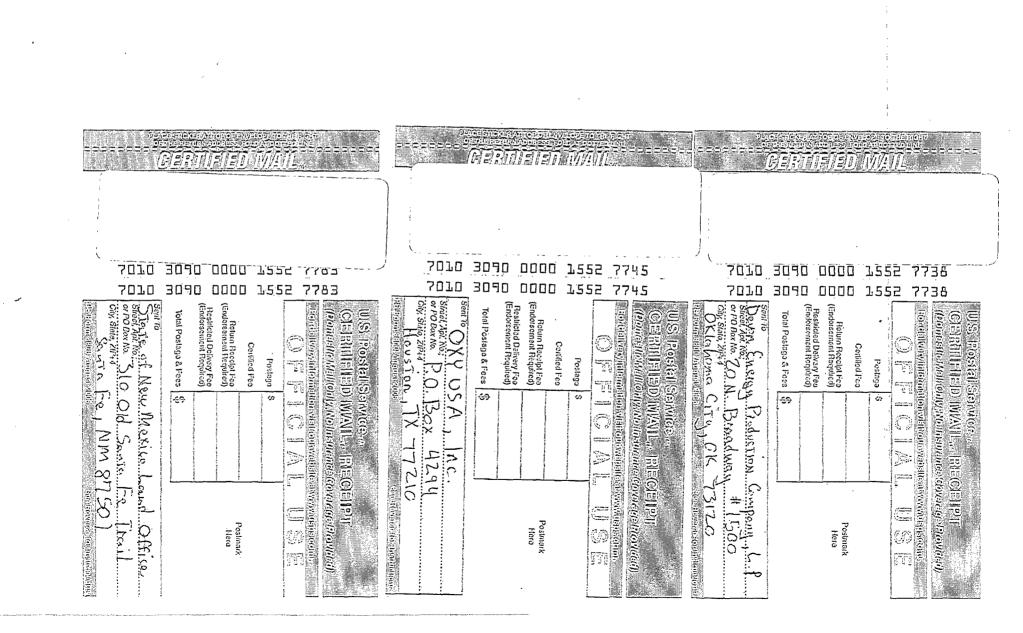
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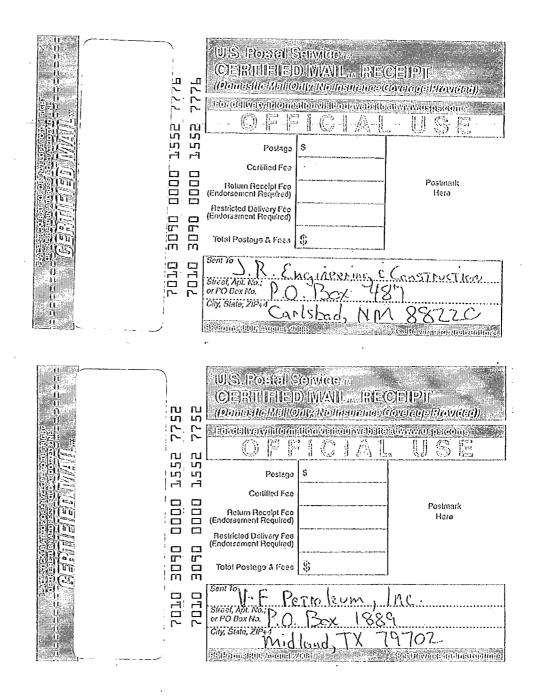
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Ray Powell, M.S., D.V.M. COMMISSIONER

State of New Mexico Commissioner of Public Lands

> 310 OLD SANTA FE TRAIL P.O. BOX 1148 SANTA FE, NEW MEXICO 87504-1148

890839

COMMISSIONER'S OFFICE Phone (505) 827-5760 Fax (505) 827-5766 www.nmstatelands.org

April 18, 2012

Bryan Arrant Chesapeake Operating, Inc. P.O. Box 18496 Oklahoma City, OK 73154-0496 RECEIVED

APR 202012

MAILROOM 2

Re: Cactus 16 State #1

Dear Mr. Arrant:

I have received the notice for the application to inject that Chesapeake Operating, Inc. has filed with the New Mexico Oil Conservation Division. The land the well is to be located on is part of oil and gas lease V0-2372-4 held by Chesapeake Operating, Inc. This oil and gas lease includes the NW¼, N½SW¼, SW¼SW¼, SW¼NE¼, W½SE¼, and SE¼SE¼ (440.00 ac.) of Section 16, Township 24 South, Range 31 East, Eddy County. <u>Under the terms of the oil and gas lease, Chesapeake</u> <u>Operating, Inc. is allowed to dispose of salt water from production wells</u> <u>located on this lease into salt water disposal wells also located on this lease</u> <u>without the need for a Salt Water Disposal Easement from the New Mexico</u> <u>State Land Office.</u> However, should Chesapeake Operating, Inc. dispose of salt water from other Chesapeake Operating, Inc. oil & gas leases, or accept salt water from a third party, you will need to submit an application for a salt water disposal easement, and any pipeline, power line, or road right of way easements. For your convenience, I have enclosed a salt water disposal easement application pack should one be needed.

If you have any questions, I may be reached at (505) 827-5773.

Sincerely, fuller

Nick Jaramillo, Management Analyst Rights of Way and Water Resources Bureau

Enclosures

Additional information:

- Geological formation tops
- Permit: Copy of application to re-enter. Submitted to NMOCD's District II Office.

Geological Formation Tops

CACTUS 16 STATE 1 Unit C of Section 16, T-24-S R-31-E 330' FNL & 2310' FWL, NMPM Eddy County, NM API# 30-015-27008

569' 920'
4250'
4383' 4412'
5300'
6890' 8255'

There are no records of any fresh water wells within the AOR.

Jones, William V., EMNRD

From:David_Stewart@oxy.comSent:Monday, May 07, 2012 1:34 PMTo:Jones, William V., EMNRDCc:bryan.arrant@chk.comSubject:FW: Cactus 16 State #1 - API 3001527008 - C-108 SWD Application - Sec 16 T24S R31E Eddy Cty NM

Will, OXY has reviewed Chesapeake's C-108 application on the Cactus 16 State #1, API No. 30-015-27008 and has no problem with the application and will not protest. If you need any additional information, please let me know.

Thanks, David Stewart Regulatory Advisor OXY Permian W-432-685-5717 C-432-634-5688 F-432-685-5742

From: Erickson, Richard J Sent: Monday, May 07, 2012 2:25 PM To: Stewart, David Subject: RE: Cactus 16 State #1 - API 3001527008 - C-108 SWD Application - Sec 16 T24S R31E Eddy Cty NM

That is correct. Oxy has no problems with the SWD proposal and will not protest.

Richard Erickson

Sr. Geological Advisor Office: 713.985.6912 Richard_Erickson@oxy.com

From: Stewart, David
Sent: Monday, May 07, 2012 2:23 PM
To: Hood, Ken; Erickson, Richard J; Lawrence, Peter; Lisigurski, Omar; Gerrard, Bruce A
Subject: RE: Cactus 16 State #1 - API 3001527008 - C-108 SWD Application - Sec 16 T24S R31E Eddy Cty NM

Just to confirm, we do not have any problems with this SWD application and will not protest?

Thanks, David S. W-432-685-5717 C-432-634-5688 F-432-685-5742

From: Hood, Ken
Sent: Thursday, May 03, 2012 11:04 AM
To: Erickson, Richard J; Lawrence, Peter; Lisigurski, Omar; Gerrard, Bruce A; Stewart, David
Subject: RE: Cactus 16 State #1 - API 3001527008 - C-108 SWD Application - Sec 16 T24S R31E Eddy Cty NM

Thanks for taking a look Richard.

Best Regards,

Ken Hood

OXY USA Inc. / Occidental Permian Ltd. OXY USA WTP LP Production Engineer - SENM RMT 5 Greenway Plaza Suite 110 Houston TX 77210-4294 713-366-5883 Office 713-670-4597 Mobile

From: Erickson, Richard J
Sent: Thursday, May 03, 2012 10:41 AM
To: Lawrence, Peter; Lisigurski, Omar; Gerrard, Bruce A; Hood, Ken; Stewart, David
Subject: RE: Cactus 16 State #1 - API 3001527008 - C-108 SWD Application - Sec 16 T24S R31E Eddy Cty NM

Chesapeake's proposed water disposal well is about 3 miles east of our proposed Nimitz well. Oxy has acreage next to this proposed SWD, but the closest well in which we might have an interest is about a half mile east of the SWD. Chesapeake will be disposing into a zone above the oil reservoirs. I see no problem with Chesapeake's proposed SWD.

Richard Erickson

Sr. Geological Advisor Office: 713.985.6912 Richard_Erickson@oxy.com From: Lawrence, Peter
Sent: Wednesday, May 02, 2012 3:01 PM
To: Lisigurski, Omar; Gerrard, Bruce A; Erickson, Richard J
Subject: FW: Cactus 16 State #1 - API 3001527008 - C-108 SWD Application - Sec 16 T24S R31E Eddy Cty NM

Omar/Bruce/Rick,

Looks like this SWD application falls into y'alls area.

Thanks

Pete Lawrence Office (713) 215-7644 Cell: (832) 613-7511

From: Stewart, David
Sent: Wednesday, May 02, 2012 1:28 PM
To: Lawrence, Peter; Hood, Ken; Day, Joseph F; Andel, Derek; Kalyanaraman, Nishanth; Murcia, Ivonne Maritza; Havins, Donna
Cc: Bryan Arrant; Jones, William
Subject: RE: Cactus 16 State #1 - API 3001527008 - C-108 SWD Application - Sec 16 T24S R31E Eddy Cty NM

I hadn't seen the application and am not sure if anybody in Houston has seen it and reviewed, if you have, please let me know. If not, will you review the attached C-108 SWD application from Chesapeake on the Cactus 16 State #1 located in Sec 16 T24S R31E, Eddy, NM and let us know if anybody has any problems or concerns. If you have any questions you can contact Bryan Arrant w/ Chesapeake @ 405-935-3782. I appreciate the help.

Thanks, David S. W-432-685-5717 C-432-634-5688 F-432-685-5742

From: Bryan Arrant [mailto:bryan.arrant@chk.com]
Sent: Wednesday, May 02, 2012 10:03 AM
To: Stewart, David
Subject: FW: CACTUS 16 STATE 1 (API# 3001527008; C-108 Application)

David,

I sent a C-108 application to your Houston office, however the certified mailing came back there was no signature.

I need to confirm if the C-108 application was received @ 4/16/2012? If not I'll send out a new copy of the application today to both the Houston and Midland offices.

Please find the attached.

Thank you, *Bryan Arrant* Regulatory Specialist II Chesapeake Energy Corporation Office: (405) 935-3782 Mobile: (903) 263-8984 Fax: (405) 849-3782 E-mail: <u>bryan.arrant@chk.com</u>

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F	RULE 26.7(A) Affected Persons	DEVON/	SKY/NF/	J.R.	Engl. (4)	3/12)	_
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SWD_Checklist.xls/ReviewersList