

DATE IN: <u>3.20.12</u>	SUSPENSE	ENGINEER: <u>WJ</u>	LOGGED IN: <u>3.20.12</u>	TYPE: <u>SWD</u>	APP. NO. <u>1708048314</u>
-------------------------	----------	---------------------	---------------------------	------------------	----------------------------

Last Date 4/1/12

PTBW
1321

Chesapeake
Caviness Paine #4

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



ADMINISTRATIVE APPLICATION CHECKLIST *30-015-26622*

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Simultaneous Dedication
 NSL NSP SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR

- [D] Other: Specify _____

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply

- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] Offset Operators, Leaseholders or Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D] Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached

2012 MAR 30 4:11 PM
RECEIVED
J-15-23E-28S
Eddy

586 PSE
2930' - 3100'
2 318"

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Brenda Coffman

Brenda Coffman

Supervisor-Regulatory Compliance

3-16-12

Print or Type Name

Signature

Title

Date

brenda.coffman@chk.com

e-mail Address

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance _____ Disposal _____ Storage
Application qualifies for administrative approval? _____ Yes _____ No

II. OPERATOR: Chesapeake Operating, Inc.

ADDRESS: P.O. Box 18496 Oklahoma City, OK 73154-0496

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 _____ 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:

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.).

CAVINESS PAINE No. 004
3001526622
J-15-23S-28E
2310 FSL & 1650 FEL
EDDY CO., NM

*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).

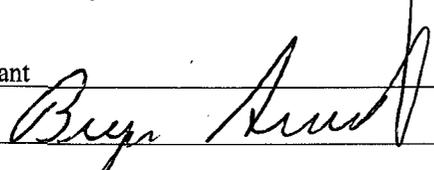
*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

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 TITLE: Regulatory Specialist II

SIGNATURE:  DATE: 3/16/2012

E-MAIL ADDRESS: bryan.arrant@chk.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.

NMOCD (C-108) Application for Authorization to Dispose

**Caviness-Paine # 4
Unit J of Section 15, T-23-S R-28-E
2310' FSL & 1650' FEL, NMPM
API# 30-015-26622
Eddy County, New Mexico**

Chesapeake Operating, Inc. proposes to re-enter the above captioned well and convert to salt water disposal in the Bell Canyon formation of the Delaware Mountain Group. Please find the following application for authorization to dispose with attachments and item information.

- Item I** The purpose of this application is for 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 ½ 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 1000 BWPD. The maximum daily rate will be approximately 2000 BWPD.
 - 2) The system will be closed.
 - 3) The proposed average disposal pressure is expected to be 550 psig and the maximum pressure is expected to be 586 psig.
 - 4) The source of water to be disposed is produced water from surrounding wells which produce from the Delaware and Bone Spring.
 - 5) Disposal will be in the Bell Canyon formation of the Delaware Mountain Group (2930'-3010'). The Delaware is economically productive at much deeper intervals in lower Brushy Canyon formation (5133'-6288') within the AOR. The Bell Canyon formation of the Delaware Mountain Group is regionally non-productive. There are no available water analyses in the Bell Canyon formation. Disposal fluids will be from Delaware and Bone Spring wells in surrounding area.

Item VIII

The proposed injection interval is the portion of the Delaware (Bell Canyon Sand) formation consisting of porous sandstones from depths of 2930'-3010'. The Bell Canyon formation conformably overlays the Cherry Canyon formation. The Bell Canyon sands, in general, is a gray to tan, moderately well to well sorted, subrounded to subangular sandstone that is very fine to fine grained. Most of the grains are quartz and feldspar with calcite or dolomite (carbonate) present as cement. The intervals for injection are non-hydrocarbon bearing zones. The closest hydrocarbon bearing zone in the area is Brushy Canyon Sand at around 5133' which is 2123' deeper than the proposed injection interval. The actual thickness of disposal zone of the Bell Canyon Sands is @141'.

The top and bottom of the Delaware is indicated below:

Well Name	Top of Delaware	Base of Delaware
Caviness-Paine # 4	2571'	6212'

Underground sources of fresh water within the AOR occur at depths of 12'-240' below ground surface. Regionally, fresh water zones (Quaternary Alluvium) overlie the proposed injection formation at depths less than 400'.

Item IX Acidize perms w/5000 gals 15 % NeFe Acid. Frac perms per frac recommendation.

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

Item XI There are a number of fresh water wells within a one mile radius of the proposed disposal well. A list water wells from the New Mexico Office of the State Engineer's document is provided. Chemical analysis's from two water wells are provided.

The proposed disposal well is located more than 2.5 miles southwest of the secretary's potash boundary of R-111-P, over 20 miles east of the Capitan Reef aquifer, and is approximately 1 1/2 miles northeast 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.
- A copy of the application has been sent to the NMOCD's District II office.
- This well is located on Fee Land. The land owner has been notified by certified mail.

Additional information:

- Procedure to convert well to SWD.
- Current Wellbore Schematic.
- Geological formation tops.

INJECTION WELL DATA SHEET

OPERATOR: Chesapeake Operating, Inc.WELL NAME & NUMBER: CAVINNESS PAINE 4

WELL LOCATION: 2310' FSL & 1650' FEL J 15 23 South 28 East
 FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 12 1/4" Casing Size: 8 5/8'Cemented with: 310 sxs sx. *or* _____ ft³Top of Cement: 0' Method Determined: CirculatedIntermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. *or* _____ ft³

Top of Cement: _____ Method Determined: _____

Production CasingHole Size: 7 7/8" Casing Size: 5 1/2"Cemented with: 1735 sxs sx. *or* _____ ft³Top of Cement: 0' Method Determined: CirculatedTotal Depth: 6352'Injection Interval2930' feet to 3010' (Perforated)

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" Lining Material: Plastic

Type of Packer: Baker Loc-Set

Packer Setting Depth: 2900'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? _____ Yes X No

If no, for what purpose was the well originally drilled? Oil & Gas

2. Name of the Injection Formation: Bell Canyon; Delaware

3. Name of Field or Pool (if applicable): Loving; Delaware, East

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. Upper Brushy Canyon

4248-4742' (OA); Lower Brushy Canyon perfs: 5133'-6202' (OA)

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Loving Delaware, East: Depths described above.

Geological Formation Tops

**Caviness-Paine # 4
Unit J of Section 15, T-23-S R-28-E
2310'FSL & 1650' FEL, NMPM
API# 30-015-26622
Eddy County, New Mexico**

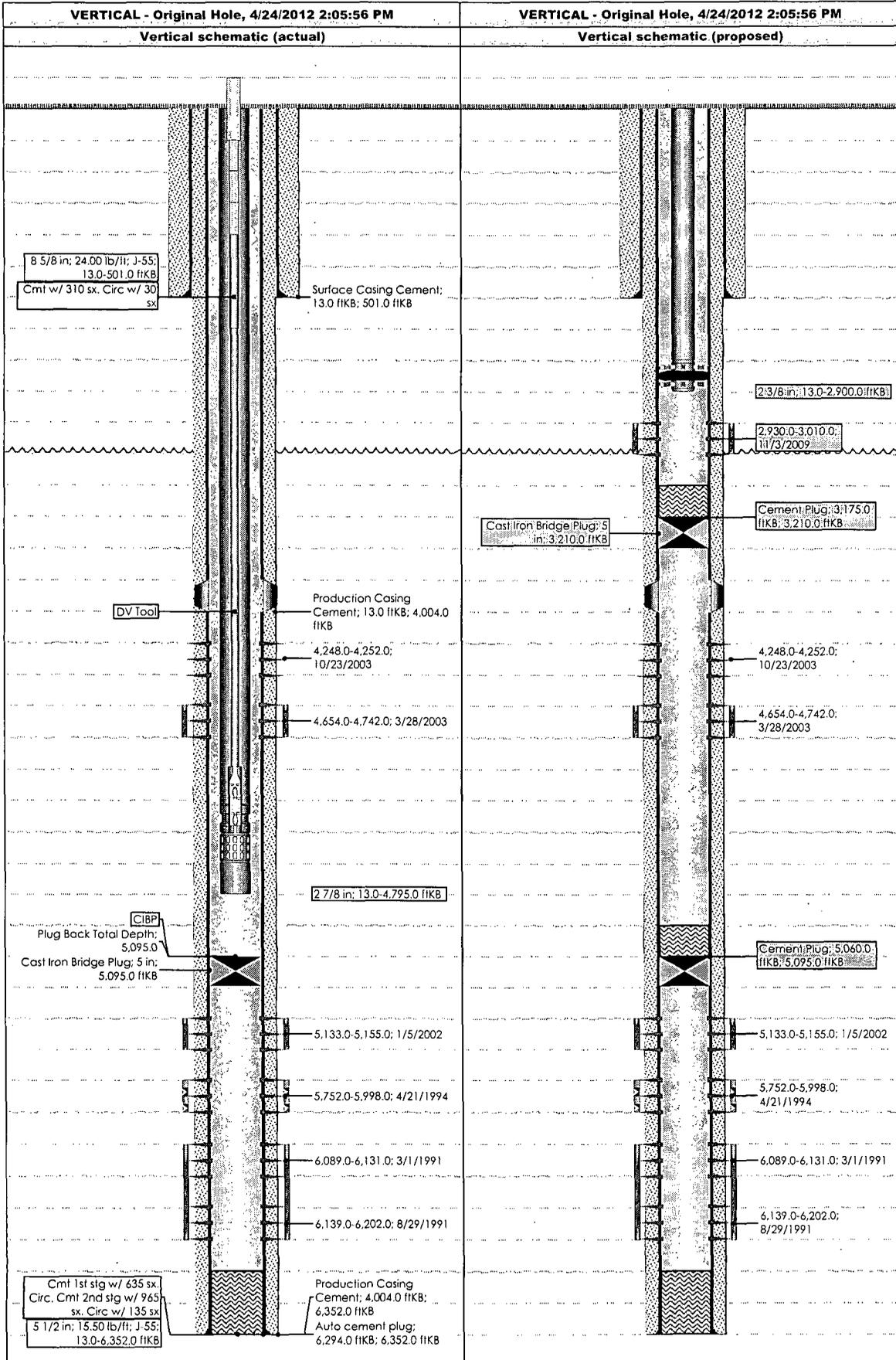
Salado	508'
Base of Salt	2355'
Lamar Limestone	2574'
Bell Canyon	2614'
Cherry Canyon	3610'
Brushy Canyon	4544'
Bone Spring	6212'

Depth of deepest water drilled within 1 mile radius of Caviness-Paine # 4 well is 240'.

Current Wellbore Schematic

WELL (PN): CAVINESS-PAINE 4 (891225)
 FIELD OFFICE: HOBBS
 FIELD: LOVING EAST (DELAWARE)
 STATE / COUNTY: NEW MEXICO / EDDY
 LOCATION: SEC 15-23S-28E, 2310 FSL & 1650 FEL
 ROUTE: HOB-NM-ROUTE 22- DAVID CHAVARIA
 ELEVATION: GL: 2,997.0 KB: 3,010.0 KB Height: 13.0
 DEPTHS: TD: 6,352.0


 API #: 3001526622
 Serial #:
 SPUD DATE: 2/4/1991
 RIG RELEASE: 2/14/1991
 FIRST SALES:
 Current Status: SHUTIN



Jones, William V., EMNRD

From: Bryan Arrant [bryan.arrant@chk.com]
Sent: Thursday, March 22, 2012 9:28 AM
To: Jones, William V., EMNRD
Cc: 'susanscott@suddenlinkmail.com'
Subject: CAVINESS-PAINE 4 (API#3001526622-Application for SWD; C-108)
Attachments: Form C-108-Caviness Paine 4.xlsx; 20120322095427095.pdf

Will,

Please find attached a corrected spreadsheet (Item 1V) that shows a list of all wells within ½ mile of the AOR for the CAVINESS-PAINE 4 well. R.C. Bennett Company is the record of operator for the Kidd 1, not Yates as submitted on the C-108 application.

Additionally, the mailing address noted on the application (Item XIII) to R.C. Bennett Company is incorrect. Their correct mailing address is:

R.C.. Bennett Company
P.O. Box 264
Midland, TX. 79702

The application I sent to them by certified mail is correct as noted above. The operator notified me of the errors. Please call or e mail me if you have any questions or concerns.

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



DECLARE YOUR
**ENERGY
INDEPENDENCE**
[Click here ▶](#)

This email (and attachments if any) is intended only for the use of the individual or entity to which it is addressed, and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this email is not the intended recipient, or the employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately by return email and destroy all copies of the email (and attachments if any).

Caviness Paine 4

Completed
 BY
 DIVISION

Operator	Well Name	API No	County	Sec Twn Range	Type	Status	Spud Date	Comp Date	TD	PBTD	Comp Zone	Comp Interval	Casing Program	TOC	Perfs
Chesapeake	Caviness Paine 4	3001526622	Eddy	15 T23S R28E	Oil	Shut In	2/4/1991	3/28/1991	6352'	5095'	Brushy Canyon	4248'-4742'	9 5/8", 24# @ 501' w/ 635 sxs 5 1/2", 15.5# @ 6.352' w/ 965 sxs	Surface	4,248-4,252 4,654-4,742 5,133-5,155 5,752-5,998 6,089-6,131 (36 holes) 6,139-6,202
Chesapeake	Caviness Paine 1	3001526321	Eddy	15 T23S R28E	Oil	Producing	6/7/1990	7/2/1990	6246'	6201'	Brushy Canyon	6059'-6130'	8 5/8", 24# @ 515' w/ 750 sxs 5 1/2", 15.5# @ 6.246' w/ 900 sxs	Surface	6,059-6,130 (54 holes)
Chesapeake	Caviness Paine 2	3001526448	Eddy	15 T23S R28E	Oil	Producing	9/6/1990	9/21/1990	6300'	6261'	Brushy Canyon	6072'-6181'	8 5/8", 24# @ 522' w/ 850 sxs 5 1/2", 15.5# @ 6300' w/ 575 sxs	Surface	6076'-6181' (46 holes)
Spindletop	Yarbro A Com No. 1	3001524151	Eddy	15 T23S R28E	Oil	Shut-In	10/25/1994	11/23/1994	12875'	12833'	Morrow	12143'-12817'	16", 65# @ 381' w/ 600 sxs 10 3/4", 40.5# @ 2455' w/ 1650 sxs 7 5/8", 29.7# @ 10640' w/ 2445 sxs	Surface	12143'-12124' 12240'-12244' 12396'-12408' 12809'-12817'
Chesapeake	Trachta 1	3001526328	Eddy	14 T23S R28E	Oil	Producing	4/21/1990	5/14/1990	6200'	6158'	Brushy Canyon	6049'-6149'	8 5/8", 24# @ 500' w/ 950 sxs 5 1/2", 15.5# @ 6200' w/ 1250 sxs	Surface	6049'-6149'
Chesapeake	Trachta 2	3001526329	Eddy	14 T23S R28E	Oil	Producing	8/24/1990	9/14/1990	6222'	6173'	Brushy Canyon	6072'-6133'	8 5/8", 24# @ 514' w/ 900 sxs 5 1/2", 15.5# @ 6221' w/ 590 sxs	OK 3206'	4720'-4756' (34 holes) 5867'-5959' (12 holes) 6072'-6133' (40 holes)
Chesapeake	East Loving SWD 1	3001526764	Eddy	15 T23S R28E	SWD	Service	6/24/1991	7/11/1991	4600'	4556'	Delaware	4216'-4298'	10 3/4", 40.5# @ 425' w/ 350 sxs 7", 23# @ 4600' w/ 1100 sxs	Surface	4216-4230 4280-4298 4327-4352 4377-4399 4407-4415 4428-4454 4462-4470 4482-4496 4503-4512 4517-4537
Chesapeake	Chaves 1	3001526447	Eddy	15 T23S R28E	Oil	Producing	9/27/1990	10/22/1990	6210'	6179'	Delaware	6026'-6101'	8 5/8", 24# @ 518' w/ 680 sxs 5 1/2", 15.5# @ 6210' w/ 945 sxs	Surface	6026-6057' 6058-6101'
Chesapeake	Siebert 1	3001526322	Eddy	15 T23S R28E	Oil	Producing	5/20/1990	6/16/1990	6219'	6182'	Brushy Canyon	6032'-6131'	8 5/8", 24# @ 510' w/ 350 sxs 5 1/2", 15.5# @ 6219' w/ 950 sxs	Surface	6032-6131'
Chevron	Nymeyer 1	3001523675	Eddy	15 T23S R28E	Gas	Producing	4/5/1981	7/21/1981	12820'	11912'	Morrow	11594'-11616'	20", 94# @ 301' w/ 450 sxs 13 3/8", 54.5# @ 2488' w/ 1800 sxs 9 5/8", 43.5# @ 9912' w/ 975 sxs 7 5/8", 38# @ 9912-11942 w/ 555 sxs	6367'	11594-11616(45 holes)
Chevron	Nymeyer A 2	3001526704	Eddy	15 T23S R28E	Oil	Producing	7/10/1991	8/16/1991	6400'	6360'	Bone Spring	6257'-6288'	8 5/8", @ 530' w/ 285 sxs 5 1/2", @ 6400' w/ 570 sxs	Surface	6257'-6288' (64 holes)
Chevron	Nymeyer A 3	3001526905	Eddy	15 T23S R28E	Oil	Producing	2/2/1992	3/1/1992	6450'	6250'	Brushy Canyon	6156'-6178'	8 5/8", 24# @ 555' w/ 345 sxs 5 1/2", 15.5# @ 6449' w/ 1370 sxs	Surface	6156-6178' (44 holes)
R.C. Bennett	Kidd-1	3001526443	Eddy	15 T23S R28E	Oil	Producing	12/20/1990	1/10/1991	6400'	6359'	Delaware	6056'-6112'	8 5/8", 24# @ 525' w/ 325 sxs 5 1/2", 17# @ 6400' w/ 1175 sxs	395'	6056'-6112' (20 holes)
Merit	Witt-1	3001526798	Eddy	33 T23S R28E	Oil	P/A	9/29/1991	11/8/1991	6300'	6200'	Brushy Canyon	6096'-6167'	8 5/8", 24# @ 530' w/ 450 sxs 5 1/2", 15.5# @ 6299' w/ 740 sxs	Surface	6096-6167'

CURRENT WELLBORE SCHEMATIC

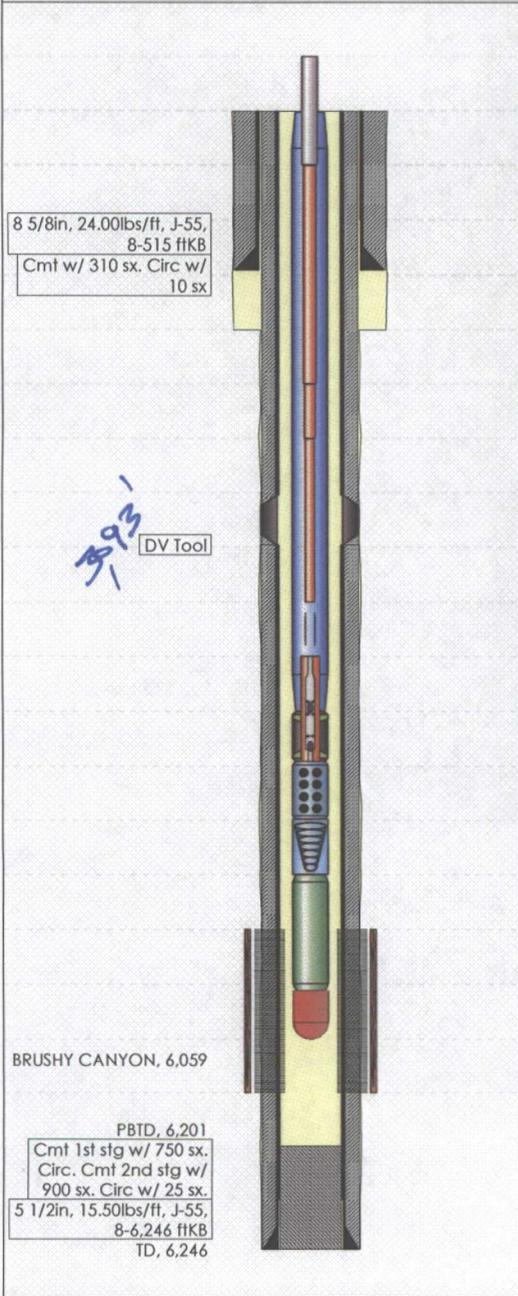


WELL: CAVINESS-PAINE 1
FIELD: EAST LOVING BRUSHY CANYON
COUNTY: EDDY STATE: NEW MEXICO
LOCATION: 2,105.0 FSL & 560.0 FEL SEC 15, BLK ,
ELEVATION: 2,997.0 GR -- 3,005.0 RKB
TD: 6,246.0 PBDT: Original Hole - 6201.0

STATUS: PRODUCING

PROP #: 891214
API: 3001526321
SPUD DATE: 6/7/1990
RIG RELEASE: 6/7/1990
FIRST SALES:
WELLBORE TYPE: VERTICAL

Well Config: - Original Hole, 12/20/2011 7:12:4...
Schematic - Actual



Casing String: Production		Wellbore		String Top Connection		
Set Depth (ftKB)	Original Hole	Original Hole		LT&C		
6,246.0						
Item Description	OD (in)	ID (in)	Wt (lbs/ft)	Grade	Top (ftKB)	Btm (ftKB)
Casing Joints	5 1/2	4.950	15.50	J-55	8.0	3,093.0
DV Tool	5 1/2				3,093.0	3,096.0
Casing Joints	5 1/2	4.950	15.50	J-55	3,096.0	6,245.0
Float Shoe	5 1/2				6,245.0	6,246.0

Perforations				
Date	Zone/Formation	Top (ftKB)	Btm (ftKB)	Current Status
6/28/1990	BRUSHY CANYON	6,059.0	6,130.0	

Tubing String: Tubing - Production		Wellbore		Run Date			
Set Depth (ftKB)	Original Hole	Original Hole		3/28/2008			
6,073.6							
Item Description	OD (in)	ID (in)	Wt (lbs/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)
Tubing	2 7/8				8.0	6,037.6	6,029.62
Seat Nipple	2 7/8				6,037.6	6,038.6	1.00
Perforated Joint	2 7/8				6,038.6	6,040.6	2.00
Desander	2 7/8				6,040.6	6,043.6	3.00
Mud Anchor	2 7/8				6,043.6	6,072.6	29.00
Bull Plug	2 7/8				6,072.6	6,073.6	1.00

Stimulations				
Stim Details				
Type	Date	Zone	Top (ftKB)	Bottom (ftKB)
Sand Frac	6/29/1990		6,059.0	6,130.0
Additive	Note	Sand Size	Amount	Units
Bulk Sand		20/40	55,000.0	lb
Resin Coated Sand		16/30	9,000.0	lb

Stim Details				
Type	Date	Zone	Top (ftKB)	Bottom (ftKB)
Sand Frac	6/29/1990		6,059.0	6,130.0

Rod - Conventional on 4/1/2008		
Rod Description	Run Date	Set Depth (ftKB)
Rod - Conventional	4/1/2008	6,038.6

Rod Components				
Item Description	OD (in)	Jts	Top (ftKB)	Btm (ftKB)
Polished Rod	1 1/4		-4.4	21.6
Sucker Rod	1	54	21.6	1,371.6
Sucker Rod	7/8	68	1,371.6	3,046.6
Sucker Rod	3/4	119	3,046.6	6,021.6
Rod Guide	3/4		6,021.6	6,022.6
Rod Pump	1 1/2		6,022.6	6,038.6

Attachments		
Date	Type 1	Description
12/15/2008		Caviness-Paine 1 OCD
12/15/2008		Caviness-Paine 1 PID

Well History	
Date	Event
6/28/1990	PERF @ 6059', 61', 62', 64', 68', 69', 73', 75', 77', 80', 83', 85', 90', 91', 93', 107', 117', 118', 119', 124', 132', 134', 136', 138', 157', 162' w/ 2 jsfp, 54 holes.
6/29/1990	ACDZ w/ 1500 gal 7.5% NeFe. FRAC w/ 25450 gal Hybor Gel 30, 55,000# 20/40 sd & 9000# 16/30 resin coated sd.

CURRENT WELLBORE SCHEMATIC



WELL: CAVINESS-PAINE 2
FIELD: EAST LOVING BRUSHY CANYON
COUNTY: EDDY STATE: NEW MEXICO
LOCATION: 760.0 FSL & 630.0 FEL SEC 15, BLK ,
ELEVATION: 2,994.0 GR -- 3,008.0 RKB
TD: 6,300.0 PBDT: Original Hole - 6261.0

STATUS: PRODUCING

PROP #: 891220
API: 3001526448
SPUD DATE: 9/6/1990
RIG RELEASE: 9/6/1990
FIRST SALES:
WELLBORE TYPE: VERTICAL

Well Config: - Original Hole, 12/20/2011 7:18:2...		Casing String: Production	
Schematic - Actual		Set Depth (ftKB) 6,300.0	Wellbore Original Hole
		String Top Connection LT&C	
		Item Description	OD (in) ID (in) Wt (lbs/ft) Grade Top (ftKB) Btm (ftKB)
		Casing Joints	5 1/2 4.950 15.50 J-55 14.0 3,102.0
		DV Tool	5 1/2 3,102.0 3,105.0
		Casing Joints	5 1/2 4.950 15.50 J-55 3,105.0 6,299.0
		Float Shoe	5 1/2 6,299.0 6,300.0
		Perforations	
Date	Zone/Formation	Top (ftKB)	Btm (ftKB) Current Status
9/20/1990	BRUSHY CANYON	6,076.0	6,181.0
Tubing String: Tubing - Production		Set Depth (ftKB) 6,207.0	Wellbore Original Hole
		Run Date 9/7/1990	
		Item Description	OD (in) ID (in) Wt (lbs/ft) Grade Top (ftKB) Btm (ftKB) Len (ft)
		Tubing	2 7/8 14.0 5,720.0 5,706.00
		Anchor/catcher	2 7/8 5,720.0 5,723.0 3.00
		Tubing	2 7/8 5,723.0 6,172.0 449.00
		Seat Nipple	2 7/8 6,172.0 6,173.0 1.00
		Perforated Joint	2 7/8 6,173.0 6,177.0 4.00
		Mud Anchor	2 7/8 6,177.0 6,207.0 30.00
		Stimulations	
		Stim Details	
Type	Date	Zone	Top (ftKB) Bottom (ftKB)
Acidizing	7/29/2004		6,076.0 6,181.0
		Stim Details	
Type	Date	Zone	Top (ftKB) Bottom (ftKB)
Sand Frac	9/20/1990		6,076.0 6,181.0
		Stim Details	
Type	Date	Zone	Top (ftKB) Bottom (ftKB)
Sand Frac	9/20/1990		6,076.0 6,181.0
Additive	Note	Sand Size	Amount Units
Bulk Sand		16/30	36,600.0 lb
Resin Coated Sand		16/30	7,200.0 lb
Rod - Conventional on 10/28/2008		Run Date 10/28/2008	Set Depth (ftKB) 6,173.0
		Rod Components	
		Item Description	OD (in) Jts Top (ftKB) Btm (ftKB)
		Polished Rod	1 1/4 -8.0 18.0
		Rod Sub	7/8 18.0 20.0
		Rod Sub	7/8 20.0 28.0
		Rod Sub	7/8 28.0 36.0
		Sucker Rod	7/8 73 36.0 1,861.0
		Sucker Rod	3/4 172 1,861.0 6,161.0
		Rod Pump	1 1/2 6,161.0 6,173.0
		Attachments	
Date	Type 1	Description	
12/15/2008		Caviness-Paine 2 PID	
Date	Type 1	Description	
12/15/2008		Caviness-Paine 2 OCD	
Well History			
Date	Event		
9/20/1990	Perf Delaware @ 6,076, 82, 84, 86, 88, 90, 92, 94, 96, 98, 6,103, 05, 07, 09, 19, 21, 31, 33, 35, 71, 73, 79 & 6,181', w/ 2 jspf, 46 holes. Spot 120 gal 15% NEFe HCl acid. Acdz perms w/ 1,380 gal acid & 67 balls. Frac perms w/ 21,000 gal 30# XL gel, 36,600# 16-30 Ottawa sand & 7,200# 16-30 RC sand.		



Jones, William V., EMNRD

From: Bryan Arrant [bryan.arrant@chk.com]
Sent: Wednesday, March 28, 2012 10:08 AM
To: Jones, William V., EMNRD
Cc: Robert Martin
Subject: FW: CAVINESS-PAINE 4 (C-108 Application, API# 3001526622)
Attachments: 20120327145623836_0001.pdf

Will,
The well bore diagram I sent earlier is a proposed P&A.
A current one is attached, from OCD's webs-site is attached.

From: Bryan Arrant
Sent: Wednesday, March 28, 2012 10:43 AM
To: Jones, William V., EMNRD (William.V.Jones@state.nm.us)
Cc: Robert Martin; Shannon Glancy
Subject: CAVINESS-PAINE 4 (C-108 Application, API# 3001526622)

API Number	ULSTR	Footages
3001524151	J-15-23S-28E	2310 FSL & 1506 FEL
Well Name & Number: YARBRO A COM No. 001		
Operator: SPINDLETOP OIL & GAS CO		

Will,
This well was not included in the AOR on the map, or on the tabulation of wells that was provided on our C-108 application.
Chuck Howell ,with Spindletop Oil & Gas Company, called Monday to inform me of this matter. They were noticed with a copy of the application.
In review of OCD's webs-site, this is a well once produced from the Morrow and Atoka. It lies less than 155' from our well-bore.
(Please see the attached WBD from OCD's web-site). I have not confirmed if it is current.
I need to see if we would need to re-file with the corrected information, or
if the application could be considered for approval due to the circumstances described above.

Thank you,
Bryan Arrant
Regulatory Specialist II

Jones, William V., EMNRD

From: Bryan Arrant [bryan.arrant@chk.com]
Sent: Wednesday, March 28, 2012 3:27 PM
To: Jones, William V., EMNRD
Cc: Shannon Glancy; Robert Martin; chowell@spindletopoil.com
Subject: RE: CAVINESS-PAINE 4 (C-108 Application, API# 3001526622)
Attachments: 20120328155918121.pdf

Will,

In review of OCD well files for the YARBRO A COM 1 well (API # 3001524151); cement was circulated on the surface and intermediate strings of casing. The TOC on the production string of casing is reported to be 1058'. Please find information I pulled from OCD's web-site on this well when it was proposed to be P&A at one time.

I do not find any reported problems with lost circulation during the drilling of this well on OCD's web-site.

I'm in the process of amending the AOR and tabulation of wells within the AOR and will get them to you.

As a courtesy, I've cc'd Mr. Howell (with Spindletop Oil & Gas Company) our e mail correspondence.

It is still our intent to convert the Caviness-Paine 4 well as a SWD well.

Thank you,
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

From: Jones, William V., EMNRD [<mailto:William.V.Jones@state.nm.us>]
Sent: Wednesday, March 28, 2012 11:30 AM
To: Bryan Arrant
Cc: Robert Martin
Subject: RE: CAVINESS-PAINE 4 (C-108 Application, API# 3001526622)

Hey Bryan,

Do you have the cement volumes/types both above and below this DV tool?

And any record of circulation or problems.

Submit 3 Copies
to Appropriate
District Office

DISTRICT I
P.O. Box 1980, Hobbs NM 88241-1980
DISTRICT II
P.O. Drawer DD, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 Pacheco St.
Santa Fe, NM 87505

CISF
Form C-103
Revised 1-1-89

WELL API NO. 30-015-24151	
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name Yarbrow A	
8. Well No. #1	
9. Pool name or Wildcat Loving Morrow, North	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 2995'	
11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> OTHER: <input type="checkbox"/>	SUBSEQUENT REPORT OF: REMEDIAL WORK <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> CASING TEST AND CEMENT JOB <input type="checkbox"/> OTHER: <input type="checkbox"/>

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.

SEE OTHER SIDE

Notify OCD 24 hrs. prior to any work done



I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE David Stewart TITLE Sr. Regulatory Analyst DATE 10/22/01

TYPE OR PRINT NAME David Stewart TELEPHONE NO. 915-685-5717

(This space for State Use)

APPROVED BY [Signature] TITLE Guido Sep DATE 10-29-01

CONDITIONS OF APPROVAL, IF ANY:

OXY USA WTP LP
Yarbro #1
SEC 15 T238 R28E
EDDY COUNTY, NM

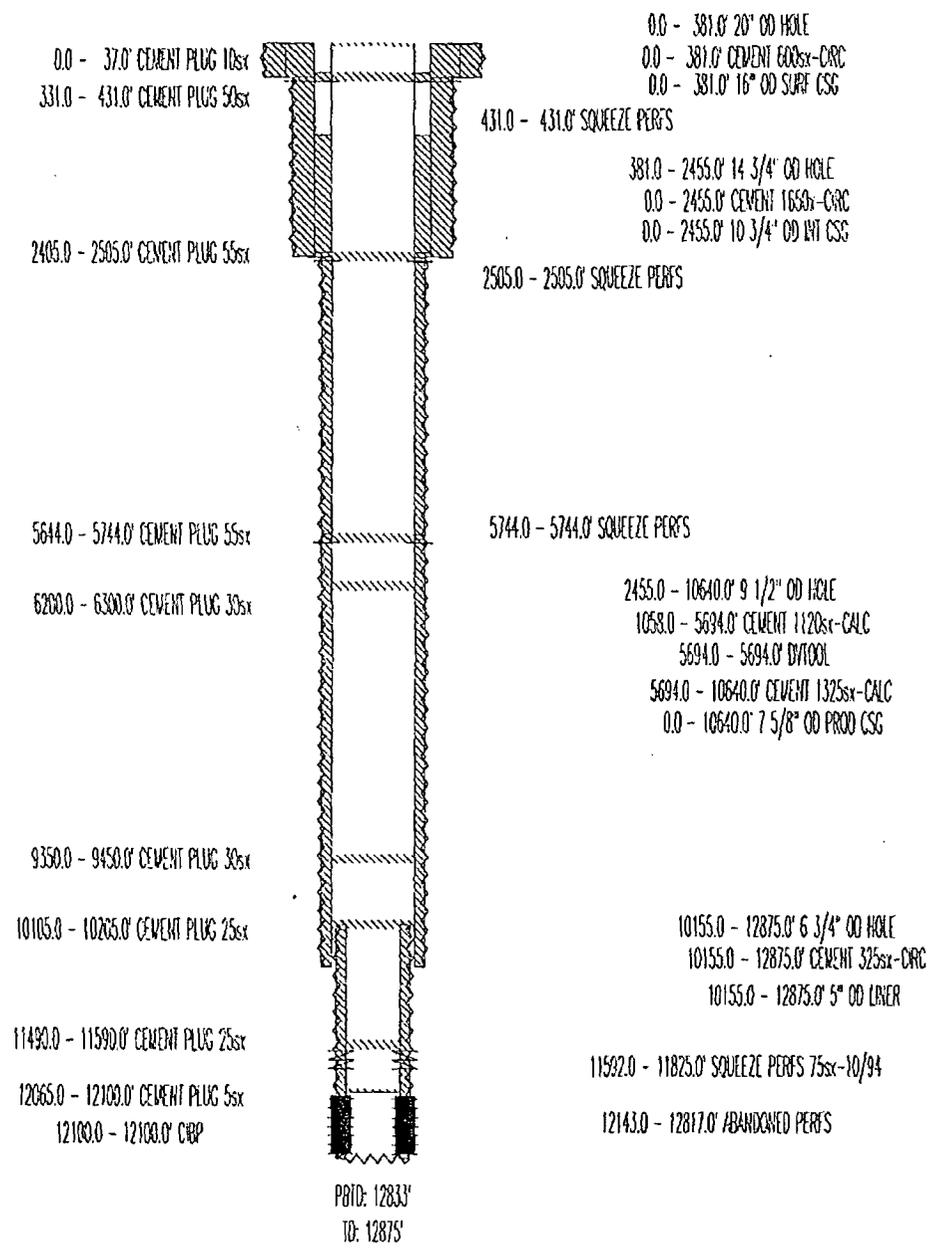
TD - 12875' PBTD - 12833' PERFS - 12143-12817'

CASING: 16" 65# @ 381', 20", cmt w/ 600sx, TOC-Circ
 10-3/4" 40.5-45.5# @ 2455', 14-3/4", cmt w/1650sx, TOC-Circ
 7-5/8" 29.7# @ 10640', 9-1/2", cmt w/2445sx, TOC-1058'-Calc
 DV Tool @ 5694'
 5" 18-23.2# @ 10155-12875', 6-3/4", cmt w/325sx, TOC-10155'-Circ

1. RIH & set CIBP @ 12100', dump 5sx TO 12065'
 2. M&P 25sx cmt @ 11590-11490'
 3. M&P 25sx cmt @ 10205-10105' - Tag
 4. M&P 30sx cmt @ 9450-9350'
 5. M&P 30sx cmt @ 6300-6200'
 6. Perf @ 5744', sqz 55sx cmt to 5644' (100' cmt inside & outside csg)
 7. Perf @ 2505', sqz 55sx cmt to 2405' (100' cmt inside & outside csg)-Tag
 8. Perf @ ~~471~~⁵⁷², sqz 50sx cmt to ~~371~~ (100' cmt inside & outside csg) - Tag
 9. M&P ~~to~~^{to} cmt Surface Plug 512
- 10# MLF BETWEEN PLUGS

Notify OCD 24 hrs. prior to any work done

OXY USA WTP LP
 YARBRO #1
 SEC 15 T23S R28E EDDY NM



YARBRO A #1
EDDY COUNTY, NEW MEXICO

ELEVATION: KB: 3020'
GL: 3000'

REMEDIAL WORK:

9/82 - Completion, spot 200 gals 10% acetic az. Perf Atoka thru tbg @ 11,592-98', 11,654', 56', 57', 59-61', 66-68', and 11,819-11,825'. Az w/ 7500 gals 7-1/2% HCl @ 1000 SCF N2/bbl dropping 120 RCNBS. CAOF - 3814 MCFD.

20" CONDUCTOR SET @ 40', 16" CSB @ 381' W/ 600 SX (CIRC)

10-3/4" CSB @ 2455' W/ 1650 SX

***** TUBING DESCRIPTION *****

1 - 2 3/8" MULE SHOED T80 SUB	5.05
BAKER 1.87" ID MOD F PROFILE NPLE	.93
1 - 2 3/8" T86 SUB	10.20
BAKER 1.87" IC MOD F PROFILE NPLE	.94
1 - 2 3/8" T86 SUB	6.38
1 - 3 1/2" X 2 3/8" X-OVER	.58
1 - 3 1/2" HILLLOUT EXTENSION	5.67
1 - 5" BAKER MODEL DB PKR	3.05
BAKER LOCATER SEAL ASSEMBLY	.80
1 - 2 3/8" X 2 7/8" X-OVER	.43
367 JTS 2 7/8" 8.5# H-80 T86	11460.77

TOTAL 11494.80
KB 18.00

SET AT 11512.80

	SURFACE	INTERMED	PRODUCTION
SIZE	16"	10-3/4"	7-8/8"
WEIGHT	65#	40.5#	29.7#
GRADE	H-40	K-95	B-95
THREAD	STGC	STGC	LTGC
DEPTH	381'	2455'	10,640'

LINER	
SIZE	5"
WEIGHT	18#
GRADE	P-110 H-80
THREAD	8FJ FL4S
DEPTH	10,155'

PREPRO BY: V. A. DERNBACH
DATE : MAR 31, 1994

TOP OF 5" LINER @ 10,155', LINER CHTD W/ 325 SX.

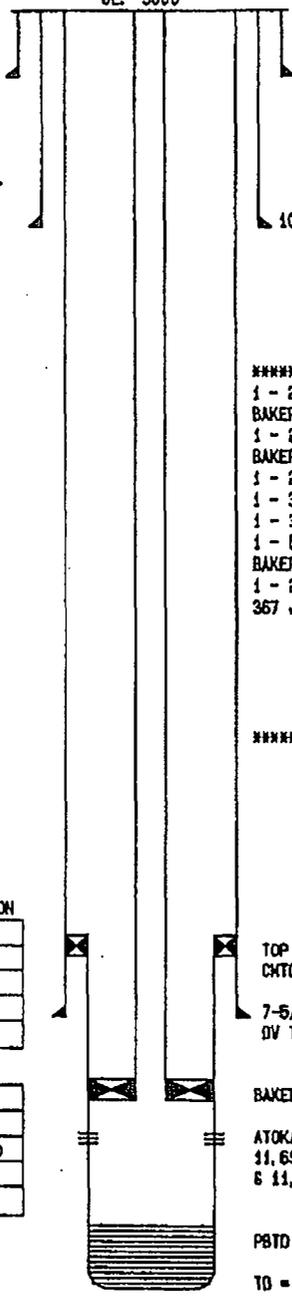
7-5/8" CSB SHOE @ 10,640' W/ 2445 SX DV TOOL @ 5634'

BAKER MODEL DB PKR @ 11,480'

ATOKA PERFORATIONS (11,592'-98', 11,654', 56', 57', 59'-61', 66'-68', & 11,819'-25')

P8TD = 12,833'

TD = 12,875', 5" LINER SHOE @ 12,875'

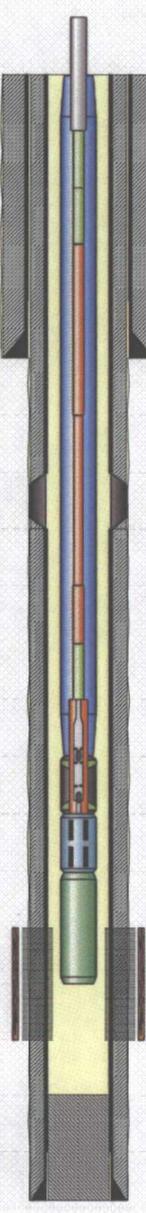


CURRENT WELLBORE SCHEMATIC



WELL: TRACHTA 1 **STATUS: PRODUCING**
FIELD: EAST LOVING DELAWARE
COUNTY: EDDY STATE: NEW MEXICO
LOCATION: 1,980.0 FSL & 660.0 FWL SEC 14, BLK ,
ELEVATION: 2,995.0 GR -- 3,003.0 RKB
TD: 6,200.0 PBD: Original Hole - 6158.0

PROP #: 891215
API: 3001526328
SPUD DATE: 4/21/1990
RIG RELEASE: 5/14/1990
FIRST SALES:
WELLBORE TYPE: VERTICAL

Well Config: VERTICAL - Original Hole, 12/20/2...		Casing String: Production					
Schematic - Actual 		Set Depth (ftKB)		Wellbore		String Top Connection	
		6,200.0		Original Hole			
		Item Description	OD (in)	ID (in)	Wt (lbs/ft)	Grade	Top (ftKB) Btm (ftKB)
		Casing Joints	5 1/2	4.950	15.50		8.0 3,086.0
		DV Tool	5 1/2				3,086.0 3,089.0
		Casing Joints	5 1/2	4.950	15.50		3,089.0 6,199.0
		Float Shoe	5 1/2				6,199.0 6,200.0
Perforations							
Date	Zone/Formation	Top (ftKB)	Btm (ftKB)	Current Status			
5/10/1990	BRUSHY CANYON	6,049.0	6,149.0				
		Tubing String: Tubing - Production		Wellbore		Run Date	
		Set Depth (ftKB)		Original Hole		2/14/2005	
		6,066.0		Original Hole			
		Item Description	OD (in)	ID (in)	Wt (lbs/ft)	Grade	Top (ftKB) Btm (ftKB) Len (ft)
		Tubing	2 7/8				8.0 6,041.0 6,033.00
		Seat Nipple	2 7/8				6,041.0 6,042.0 1.00
		Perf Sub	2 7/8				6,042.0 6,046.0 4.00
		Mud Anchor	2 7/8				6,046.0 6,066.0 20.00
Stimulations							
Stim Details							
Type	Date	Zone	Top (ftKB)	Bottom (ftKB)			
Sand Frac	5/10/1990	BRUSHY CANYON, Original Hole	6,049.0	6,149.0			
Rod - Conventional on 3/19/2010							
Rod Description		Run Date	Set Depth (ftKB)				
Rod - Conventional		3/19/2010	6,042.0				
Rod Components							
		Item Description	OD (in)	Jts	Top (ftKB)	Btm (ftKB)	
		Polished Rod	1 1/4		-3.0	19.0	
		Rod Sub	7/8		19.0	22.0	
		Rod Sub	7/8		22.0	24.0	
		Sucker Rod	7/8	90	24.0	2,274.0	
		Sucker Rod	3/4	140	2,274.0	5,774.0	
		Sucker Rod	7/8	10	5,774.0	6,024.0	
		Rod Sub	7/8		6,024.0	6,026.0	
		Rod Pump	1 1/2		6,026.0	6,042.0	
Well History							
Date	Event						
5/10/1990	PERF @ 6049, 57, 59, 61, 62, 65-67, 73, 75, 76, 80-82, 85, 86, 6108, 10, 14, 17, 19, 21, 41-44, 49 w/ 2 jspf. ACDZ w/ 2000 gal 15% HCl. FRAC w/ 20000 gal gld wtr w/ Nitorgen & 40000# 16/30 sd & 6000# 12/20 Ultraspod sd.						

Asset Manager: Jeff Finnell

CURRENT WELLBORE SCHEMATIC

WELL: TRACHTA 2 **STATUS: PRODUCING**
FIELD: EAST LOVING DELAWARE
COUNTY: EDDY STATE: NEW MEXICO
LOCATION: 1,980.0 FNL & 660.0 FWL SEC 14, BLK ,
ELEVATION: 2,997.0 GR -- 3,011.0 RKB
TD: 6,222.0 PBDT: Original Hole - 6173.0

PROP #: 891216
API: 3001526329
SPUD DATE: 8/24/1990
RIG RELEASE: 8/24/1990
FIRST SALES:
WELLBORE TYPE: VERTICAL



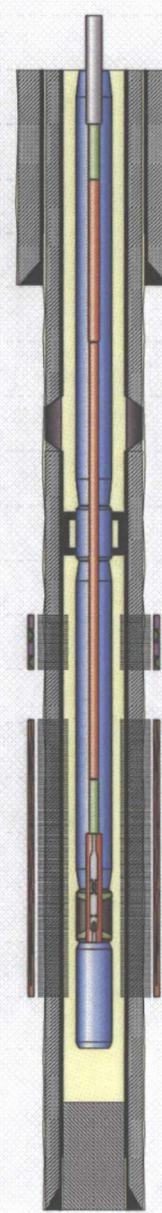
Well Config: - Original Hole, 12/20/2011 7:19:5...		Casing String: Production				
Schematic - Actual		Original Hole				
		Set Depth (ftKB)	6,221.0			
		Item Description	OD (in) ID (in) Wt (lbs/ft) Grade Top (ftKB) Btm (ftKB)			
		Casing Joints	5 1/2 4.950 15.50 14.0 3,098.0			
		DV Tool	5 1/2 3,098.0 3,101.0			
		Casing Joints	5 1/2 4.950 15.50 3,101.0 6,220.0			
		Float Shoe	5 1/2 6,220.0 6,221.0			
		Perforations		Date	Zone/Formation Top (ftKB) Btm (ftKB) Current Status	
				3/25/2004	4,720.0 4,756.0	
				11/5/1993	5,867.0 5,959.0	
				9/12/1990	6,072.0 6,133.0	
<div style="position: absolute; top: 20px; left: 20px; border: 1px solid black; padding: 2px;"> TOC 8 5/8" 24# Surf Csg 8 5/8in, 24.00lbs/ft, 14-514 ftKB Cmt w/ 310 sx. Circ </div> <div style="position: absolute; top: 350px; left: 20px; color: blue; font-size: 24px; font-weight: bold;">3098</div> <div style="position: absolute; top: 375px; left: 20px; border: 1px solid black; padding: 2px;"> DV Tool </div> <div style="position: absolute; top: 660px; left: 20px;"> BRUSHY CANYON, 6,072 PBDT, 6,173 Cmt 1st stg w/ 900 sx. Circ. Cmt 2nd stg w/ 590 sx 5 1/2" 15.5# Prod Csg 5 1/2in, 15.50lbs/ft, 14-6,221 ftKB TD, 6,222 </div>		Set Depth (ftKB)	6,012.0			
		<div style="position: absolute; top: 20px; left: 20px; border: 1px solid black; padding: 2px;"> TOC 8 5/8" 24# Surf Csg 8 5/8in, 24.00lbs/ft, 14-514 ftKB Cmt w/ 310 sx. Circ </div> <div style="position: absolute; top: 350px; left: 20px; color: blue; font-size: 24px; font-weight: bold;">3098</div> <div style="position: absolute; top: 375px; left: 20px; border: 1px solid black; padding: 2px;"> DV Tool </div> <div style="position: absolute; top: 660px; left: 20px;"> BRUSHY CANYON, 6,072 PBDT, 6,173 Cmt 1st stg w/ 900 sx. Circ. Cmt 2nd stg w/ 590 sx 5 1/2" 15.5# Prod Csg 5 1/2in, 15.50lbs/ft, 14-6,221 ftKB TD, 6,222 </div>		Run Date		8/19/2009
				Item Description	OD (in) ID (in) Wt (lbs/ft) Grade Top (ftKB) Btm (ftKB) Len (ft)	
				Tubing	2 7/8 14.0 5,728.0 5,714.00	
				Anchor/catcher	2 7/8 5,728.0 5,731.0 3.00	
				Tubing	2 7/8 5,731.0 5,959.0 228.00	
				Seat Nipple	2 7/8 5,959.0 5,960.0 1.00	
				Nipple	2 7/8 5,960.0 5,961.0 1.00	
				Desander	2 7/8 5,961.0 5,981.0 20.00	
				Mud Anchor	2 7/8 5,981.0 6,011.0 30.00	
Bull Plug	2 7/8 6,011.0 6,012.0 1.00					
Stimulations		Type	Date	Zone	Top (ftKB)	Bottom (ftKB)
		Sand Frac			6,072.0	6,133.0
		Sand Frac			5,867.0	5,959.0
		Sand Frac			4,720.0	4,756.0
Rod - Conventional on 8/19/2009		Rod Description	Run Date	Set Depth (ftKB)		
		Rod - Conventional	8/19/2009	5,960.0		
Rod Components		Item Description	OD (in)	Jts	Top (ftKB)	Btm (ftKB)
		Polished Rod	1 1/2		9.0	25.0
		Sucker Rod	7/8		25.0	29.0
		Sucker Rod	7/8		29.0	37.0
		Sucker Rod	7/8		37.0	39.0
		Sucker Rod	7/8	66	39.0	1,689.0
		Sucker Rod	3/4	160	1,689.0	5,689.0
		Sucker Rod	7/8	10	5,689.0	5,939.0
		Sucker Rod	3/4		5,939.0	5,940.0
		Rod Pump	1 1/2		5,940.0	5,960.0
Well History		Date	Event			
9/12/1990	PERF @ 6072-79, 90-94, 6101-18, 31-33 w/ 34 holes. ACDZ w/ 1400 gal 7.5% HCl. FRAC w/ 15000 gal 30# Xlinked gel w/ 38000# 20/40 sd & 6000# 16/30 RC sd.					
11/5/1993	PERF @ 5867, 74, 81, 92, 5900, 06, 12, 31, 38, 45, 52, 59 w/ 12 holes.					
11/7/1993	ACDZ 5867-5959 w/ 1500 gal 7.5% HCl. FRAC w/ 22000 gal 25% CO2 gel w/ 35000# 20/40 Ottawa sd & 4000# 16/30 RC sd.					
3/25/2004	PERF @ 4720-26, 34-44, 52-56 w/ 40 holes.					
3/26/2004	ACDZ w/ 1000 gal 7.5T HCl. FRAC w/ 39000 gal 2% KCl Dynafloc 20 xlinked fluid w/ 54000# 20/40 sd					

CURRENT WELLBORE SCHEMATIC



WELL: CHAVES 1 **STATUS: PRODUCING**
FIELD: EAST LOVING DELAWARE
COUNTY: EDDY STATE: NEW MEXICO
LOCATION: 660.0 FNL & 1,980.0 FEL SEC 15, BLK ,
ELEVATION: 2,991.5 GR -- 3,007.6 RKB
TD: 6,210.0 PBDT: Original Hole - 6179.0

PROP #: 890420
API: 3001526447
SPUD DATE: 9/27/1990
RIG RELEASE: 10/5/1990
FIRST SALES:
WELLBORE TYPE: VERTICAL

Well Config: - Original Hole, 12/20/2011 2:26:4...		Casing String: Production							
Schematic - Actual 		Set Depth (ftKB)		Wellbore			String Top Connection		
		6,210.0		Original Hole			LT&C		
		Item Description	OD (in)	ID (in)	Wt (lbs/ft)	Grade	Top (ftKB)	Botm (ftKB)	
		Casing Joints	5 1/2	4.950	15.50	J-55		16.1	3,313.0
		DV Tool	5 1/2				3,313.0		3,316.0
		Casing Joints	5 1/2	4.950	15.50	J-55		3,316.0	6,209.0
		Float Shoe	5 1/2				6,209.0		6,210.0
Perforations									
Date	Zone/Formation	Top (ftKB)	Botm (ftKB)	Current Status					
4/3/1991	DELAWARE	6,026.0	6,057.0						
10/17/1990	DELAWARE	6,058.0	6,101.0						
Tubing String: Tubing - Production									
Set Depth (ftKB)		Wellbore			Run Date				
6,110.1		Original Hole			1/31/1993				
		Item Description	OD (in)	ID (in)	Wt (lbs/ft)	Grade	Top (ftKB)	Botm (ftKB)	Len (ft)
		Tubing	2 7/8				16.1	5,706.0	5,689.90
		Anchor/catcher	2 7/8				5,706.0	5,709.0	3.00
		Tubing	2 7/8				5,709.0	6,079.1	370.10
		Seat Nipple	2 7/8				6,079.1	6,080.1	1.00
		Tubing	2 7/8				6,080.1	6,110.1	30.00
Stimulations									
Stim Details									
Type	Date	Zone	Top (ftKB)	Bottom (ftKB)					
Sand Frac	4/3/1991		6,058.0	6,101.0					
Stim Details									
Type	Date	Zone	Top (ftKB)	Bottom (ftKB)					
Sand Frac	4/3/1991		6,026.0	6,057.0					
Stim Details									
Type	Date	Zone	Top (ftKB)	Bottom (ftKB)					
Acidizing	4/3/1991		6,058.0	6,101.0					
Stim Details									
Type	Date	Zone	Top (ftKB)	Bottom (ftKB)					
Acidizing	4/3/1991		6,026.0	6,057.0					
Rod - Conventional on 4/19/2002									
Rod Description		Run Date			Set Depth (ftKB)				
Rod - Conventional		4/19/2002			6,080.1				
Rod Components									
Item Description		OD (in)	Jts	Top (ftKB)	Botm (ftKB)				
Polished Rod		1 1/4		5.1	27.1				
Rod Sub		7/8		27.1	35.1				
Sucker Rod		7/8	66	35.1	1,685.1				
Sucker Rod		3/4	175	1,685.1	6,060.1				
Rod Sub		3/4		6,060.1	6,062.1				
Rod Pump		1 1/4		6,062.1	6,080.1				
Attachments									
Date	Type 1	Description							
12/15/2008		Chaves 1 PID							
Date	Type 1	Description							
12/15/2008		Chaves 1 OCD							
8 5/8" 24# J-55 ST&C Surf Csg 8 5/8in, 24.00lbs/ft, J-55, 16-518 ftKB Cmt w/ 310 sx. Circ									
3316 DV Tool									
DELAWARE, 6,026									
PBDT, 6,179 Cmt 1st stg w/ 680 sx. Circ w/ 65 sx. Cmt 2nd stg w/ 945 sx. Circ w/ 62 sx									
5 1/2" 15.5# J-55 LT&C Prod Csg 5 1/2in, 15.50lbs/ft, J-55, 16-6,210 ftKB TD, 6,210									
Well History									
Date	Event								
10/17/1990	PERF @ 6058-63, 70, 75, 82-90, 95-6101 w/ 1 jspf, 24 holes. ACDZ w/ 750 gal 15% acid. FRAC w/ 10000 gal 30# XL & 10000# sd.								
11/6/1990	FRAC w/ 18500 gal 30# XL Borate gel w/ 24000# 16/30 Ottawa sd & 7300# 12/20 RC sd.								
4/3/1991	PERF add'l Delaware @ 6026-57 w/ 1 jspf, 27 holes. ACDZ w/ 750 gal 15% acid. FRAC w/ 14000 gal 30Q, 30# XL gel w/ 24000# sd.								

CURRENT WELLBORE SCHEMATIC



WELL: SIEBERT 1 **STATUS: PRODUCING**
FIELD: EAST LOVING DELAWARE
COUNTY: EDDY STATE: NEW MEXICO
LOCATION: 535.0 FNL & 535.0 FEL SEC 15, BLK ,
ELEVATION: 2,991.0 GR -- 3,001.0 RKB
TD: 6,219.0 PBDT: Original Hole - 6182.0

PROP #: 890534
API: 3001526322
SPUD DATE: 5/20/1990
RIG RELEASE:
FIRST SALES:
WELLBORE TYPE: VERTICAL

Well Config: - Original Hole, 1/9/2012 8:04:18 AM

Schematic - Actual



Casing String: Production

Item Description	OD (in)	ID (in)	Wt (lbs/ft)	Grade	Top (ftKB)	Btm (ftKB)
Set Depth (ftKB)	6,219.0		Original Hole			
Casing Joints	5 1/2	4.950	15.50	J-55	10.0	3,072.0
DV Tool	5 1/2				3,072.0	3,075.0
Casing Joints	5 1/2	4.950	15.50	J-55	3,075.0	6,218.0
Float Shoe	5 1/2				6,218.0	6,219.0

Perforations

Date	Zone/Formation	Top (ftKB)	Btm (ftKB)	Current Status
6/16/1990		6,059.0	6,131.0	

Tubing String: Production

Item Description	OD (in)	ID (in)	Wt (lbs/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	
Set Depth (ftKB)	6,154.0		Original Hole				Run Date	6/16/2006
Tubing	2 7/8				10.0	5,597.0	5,587.00	
Anchor/catcher	2 7/8				5,597.0	5,600.0	3.00	
Tubing	2 7/8				5,600.0	6,115.0	515.00	
Nipple	2 7/8				6,115.0	6,116.0	1.00	
Cross Over: Reducing	2 7/8				6,116.0	6,117.0	1.00	
Seat Nipple	2 3/8				6,117.0	6,118.0	1.00	
Cross Over: Enlarging	2 7/8				6,118.0	6,119.0	1.00	
Tubing Sub	2 7/8				6,119.0	6,121.0	2.00	
Desander	2 7/8				6,121.0	6,124.0	3.00	
Mud Anchor	2 7/8				6,124.0	6,154.0	30.00	

Stimulations

Stim Details

Type	Date	Zone	Top (ftKB)	Bottom (ftKB)
Sand Frac	6/16/1990		6,059.0	6,131.0

Stim Details

Type	Date	Zone	Top (ftKB)	Bottom (ftKB)
Sand Frac	6/16/1990		6,059.0	6,131.0
Additive	Note	Sand Size	Amount	Units
Sand - Bulk		20/40	56,000.0	lb

Rod - Conventional on 9/29/2008

Rod Description	Run Date	Set Depth (ftKB)
Rod - Conventional	9/29/2008	6,118.0

Rod Components

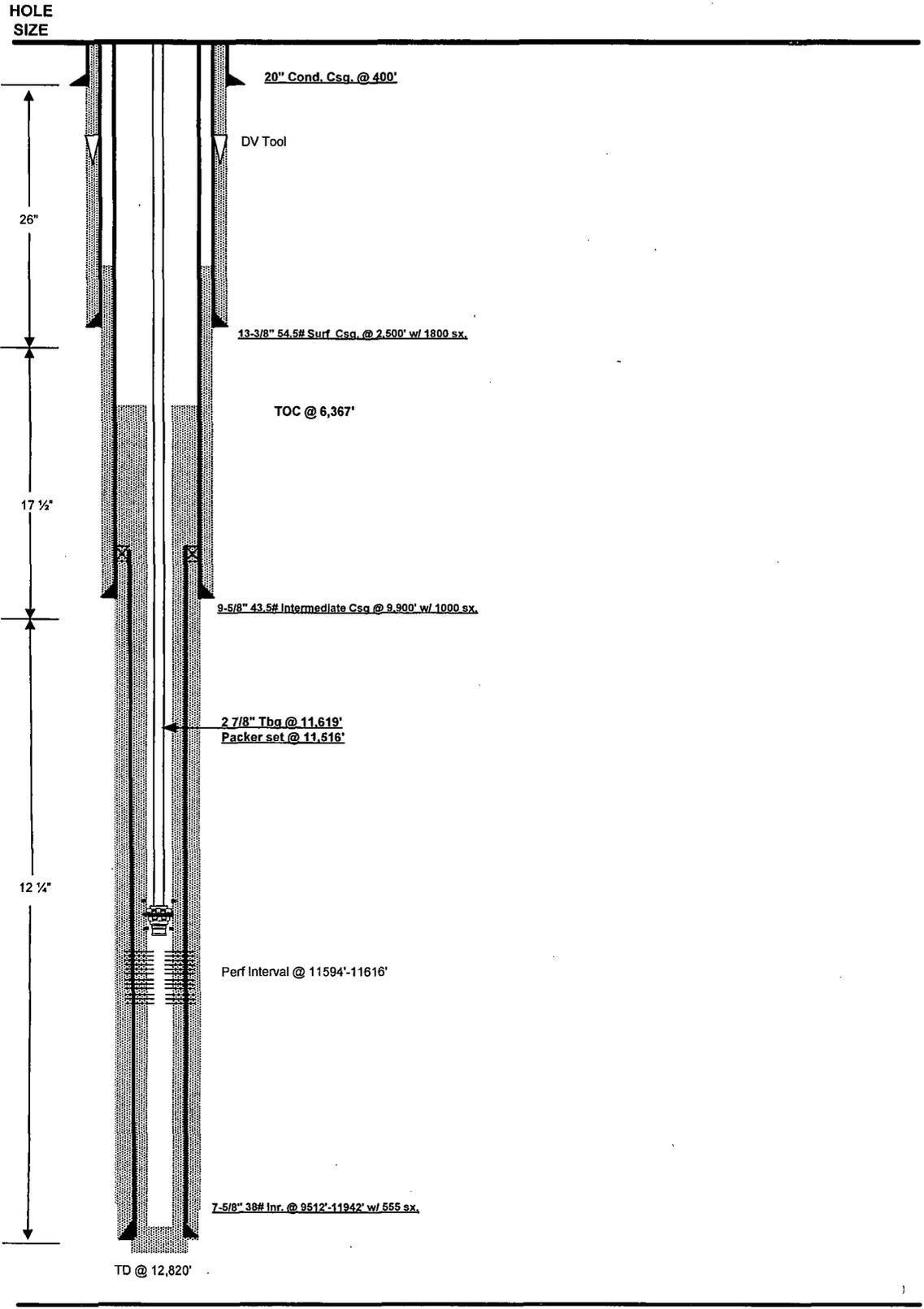
Item Description	OD (in)	Jts	Top (ftKB)	Btm (ftKB)
Polished Rod	1 1/2		-5.0	21.0
Rod Sub	7/8		21.0	27.0
Sucker Rod	7/8	60	27.0	1,527.0
Sucker Rod	3/4	173	1,527.0	5,852.0
Sucker Rod	7/8	10	5,852.0	6,102.0
Rod Pump	1 1/2		6,102.0	6,118.0

Well History

Date	Event
6/16/1990	Initial Completion: Perf @ 6059',61',66',68',69',72',84',85',93',95',96',98',99',6100',02',03',06',08',10',12',30' & 31' w/ 2 jspf 44 holes. Acadz w/ 1400 gal. Frac w/ 24,000 gal & 56,000# 20/40 sd. P: 295 BO 44 BW 385 MCF FTP 1500#.

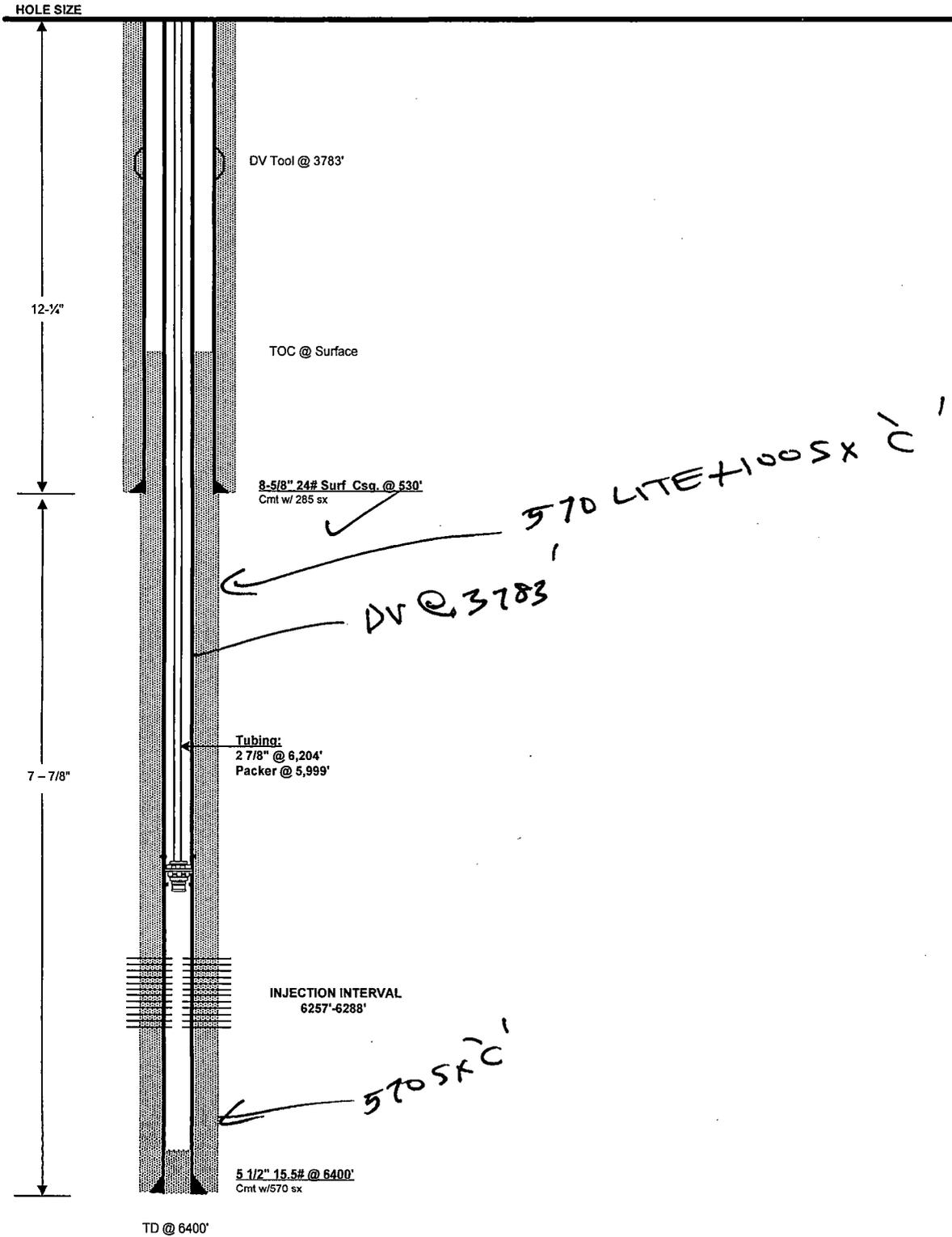
WELLBORE SCHEMATIC
Chevron Operating

WELL : Nymeyer 1
LOCATION : Section 15 T 23 S R 28 E
COUNTY : Eddy STATE : NM



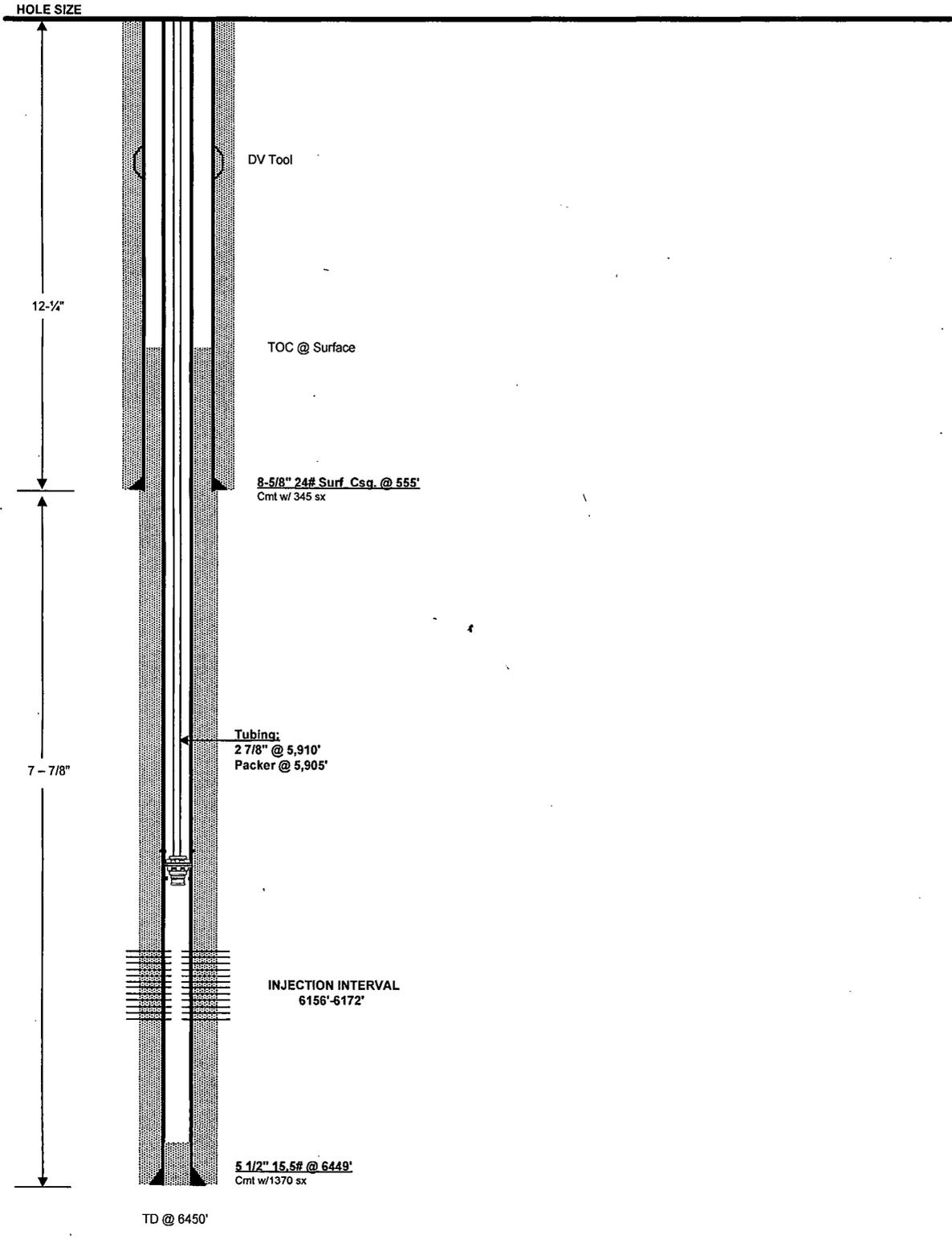
WELLBORE SCHEMATIC
Chevron Operating

WELL : Nymeyer A 2
LOCATION : Sec 15 T 23S R 28E
COUNTY : Eddy STATE : NM



WELLBORE SCHEMATIC
Chevron Operating

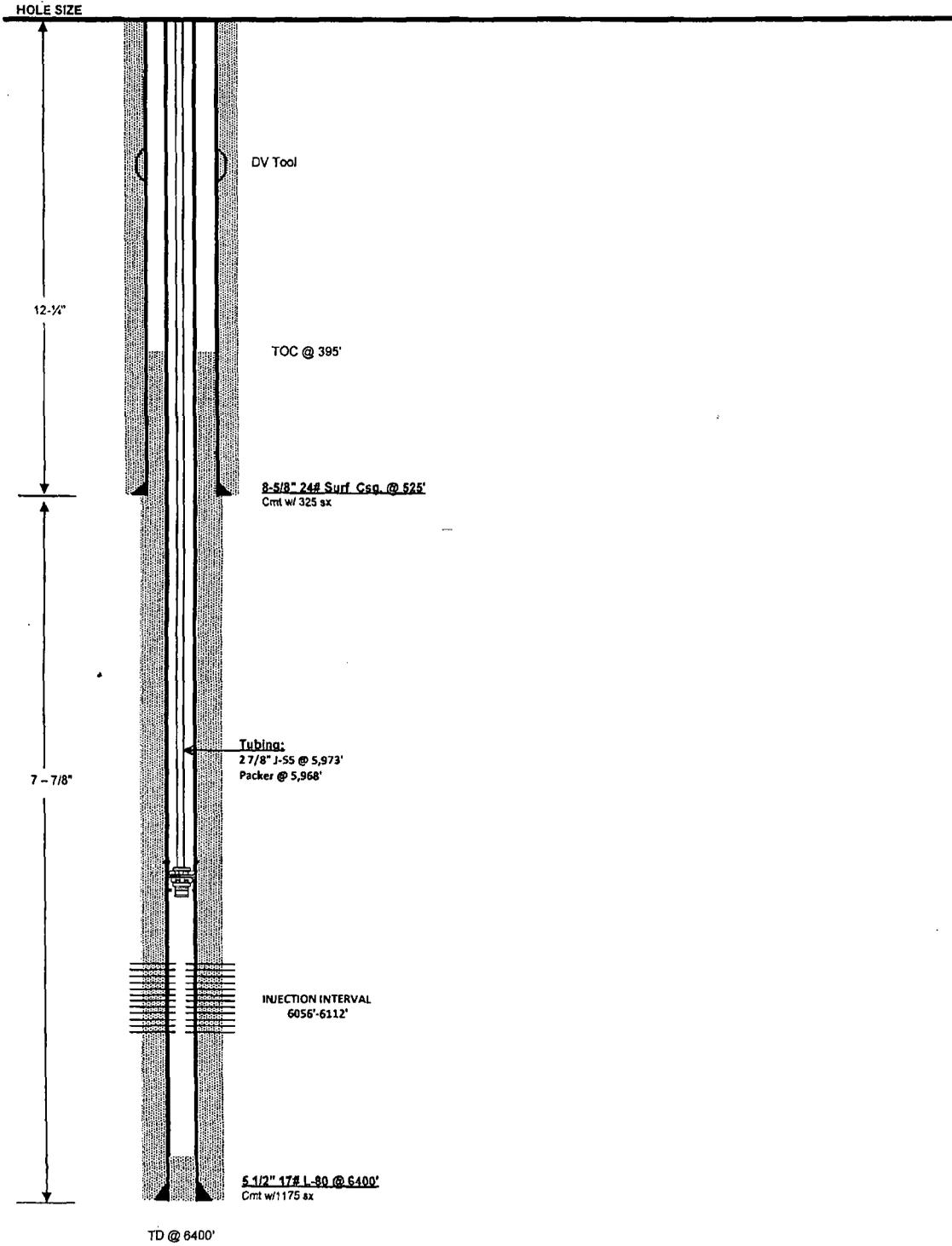
WELL : Nymeyer A 3
LOCATION : Sec 15 T 23S R 28E
COUNTY : Eddy STATE : NM



DATE: 1/9/2012

WELLBORE SCHEMATIC
R.C. Bennett Company

WELL : Kidd-1
LOCATION : Sec 15 T 23S R 28E
COUNTY : Eddy STATE : NM



DATE: 1/9/2012

WELLBORE SCHEMATIC

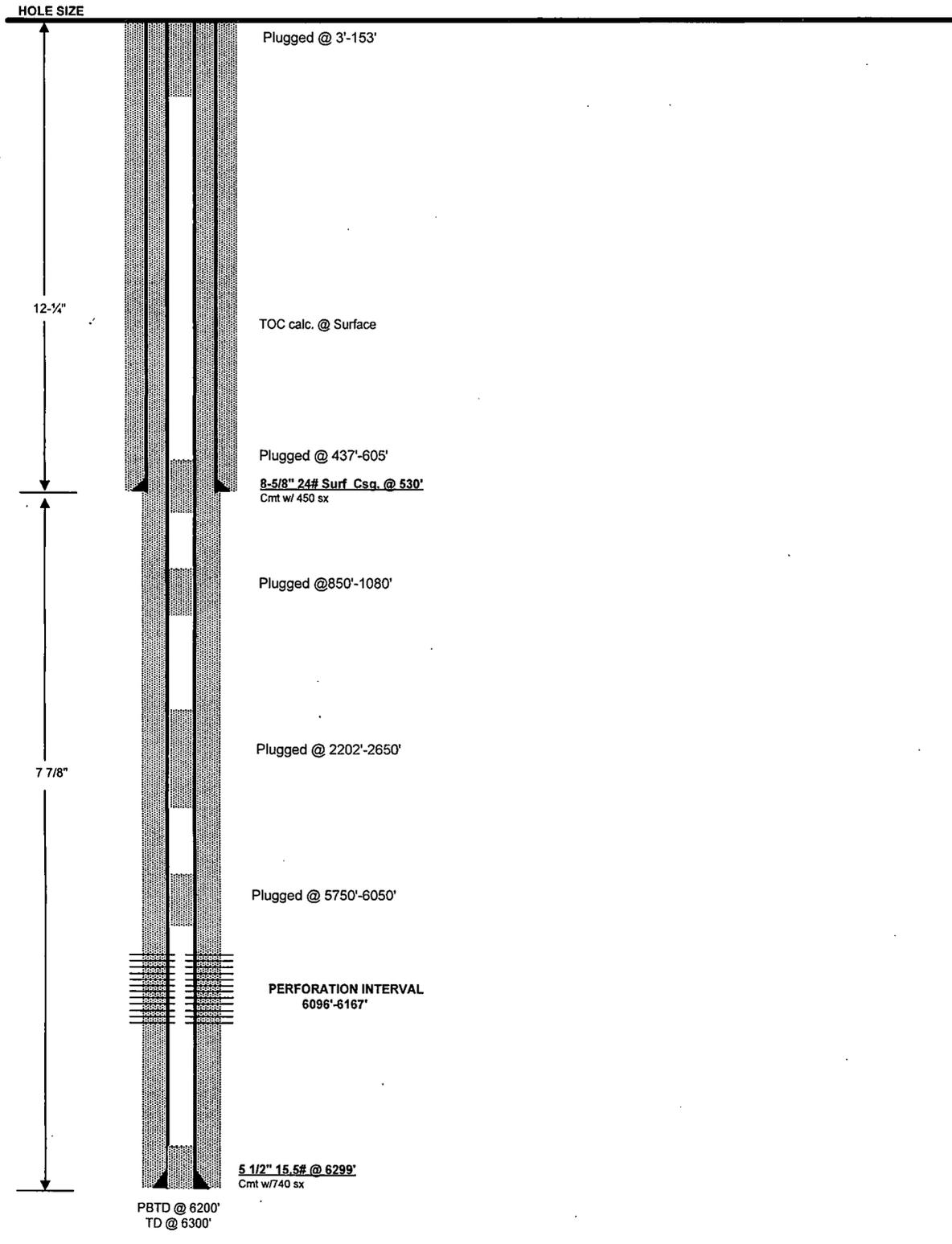
Merit Operating

WELL : Witt-1

LOCATION : Sec 33 T 23S R 28E

COUNTY : Eddy

STATE : NM



DATE: 1/9/2012

Item XI



New Mexico Office of the State Engineer Wells with Well Log Information

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

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(in feet)

POD Number	Code	Subbasin	County	Source	6416 4	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	License Number		
C 00326		C	ED	Shallow	3	3	3	10	23S	28E	586358	3575572*	640	10/01/1991	10/19/1991	11/01/1991	130	19	MIKE CAMPBELL	1259
C 00326 CLW196238	O		ED	Shallow	3	3	3	10	23S	28E	586358	3575572*	640	07/23/1952	08/06/1952	09/03/1952	196	25	J.F. KIMMELL	
C 00235		C	ED	Shallow	2	2	15	23S	28E		587676	3575280*	715	07/21/1950	07/23/1950	01/05/1953	160		KIMMEL, J.F.	153
C 02503		C	ED	Shallow	4	2	15	23S	28E		587679	3574874*	868	08/27/1996	08/29/1996	09/03/1996	70	12	OSBOURN, FLOYD MILTON	353
C 00269		C	ED	Shallow	4	4	2	15	23S	28E	587778	3574773*	1007	03/01/1958	03/30/1958	04/08/1958	240	35	FREEK, R.H.	212
C 00269 CLW199753	O		ED	Shallow	4	4	2	15	23S	28E	587778	3574773*	1007	03/01/1958	03/30/1958	04/08/1958	240	35	R.H. FREEK	212
C 00616			ED	Shallow	1	3	1	14	23S	28E	587982	3574978*	1088	10/22/1980	12/05/1980	12/09/1980	120	30	BRININSTOOL, M.D.	842
C 00315		C	ED	Shallow	3	1	3	11	23S	28E	587973	3575995*	1185	06/16/1952	06/20/1952	01/06/1953	100	45	J.F. KIMMELL	
C 02189		C	ED	Shallow	1	1	3	14	23S	28E	587985	3574572*	1294	03/12/1990	03/12/1990	04/20/1990	48	29	NORMAN SPRUILL	803
C 03469 POD1			ED	Shallow	3	4	3	11	23S	28E	588374	3575538	1418	01/24/2011	01/25/2011	05/20/2011	68	38	SCARBOROUGH, LANE (LD)	1188
C 00800		C	ED	Shallow	4	2	09	23S	28E		586050	3576479*	1438	11/05/1957	11/10/1957	12/09/1957	200	30	WILLARD BEATY	62
C 00128		C	ED	Shallow	2	4	4	15	23S	28E	587783	3574162*	1458	12/24/1952	01/10/1953	04/30/1953	149		SMITH, SAM S.	108
C 00211		C	ED	Shallow	4	3	3	15	23S	28E	586570	3573949*	1475	06/19/1979	06/20/1979	09/26/1979	89	48	J.W. TOMBLIN	592
C 00311		C	ED	Shallow	4	2	1	16	23S	28E	585353	3575152*	1627	06/23/1952	07/05/1952	07/17/1952	163	55	HOWARD HEMLER	24
C 01336		C	ED	Shallow	2	1	1	22	23S	28E	586572	3573744*	1673	09/03/1966	09/20/1966	01/26/1967	190	30	HOWARD HEMLER	24
C 01872		C	ED	Shallow	2	1	22	23S	28E		586878	3573649*	1723	04/07/1980	06/12/1980	07/02/1980	68	48	MORELAND, A.J.	113

Record Count: 16

Basin/County Search:

Basin: Carlsbad County: Eddy

UTM NAD83 Radius Search (in meters):

Easting (X): 586966 Northing (Y): 3575370 Radius: 1760

*UTM location was derived from PLSS - see Help

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

2/13/12 7:37 AM

WELLS WITH WELL LOG INFORMATION

Item XI

P.O. BOX 98
MIDLAND, TX. 79702
PHONE (432) 683-4521

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819

RESULT OF WATER ANALYSES

TO: Bryan Arrant LABORATORY NO. 312-48
6100 N. Western Avenue, Oklahoma City, OK 73118 SAMPLE RECEIVED 2-23-12
RESULTS REPORTED 2-27-12

COMPANY Chesapeake LEASE As listed
FIELD OR POOL _____
SECTION _____ BLOCK _____ SURVEY _____ COUNTY Eddy STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

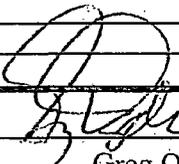
NO. 1 Johnny Reid Water Well. 2-17-12 Both water wells are located in Section 15, T23S R-28-E.
NO. 2 Henry McDonald Water Well. 2-23-12 Less than ¼ mile from Caviness-Paine 4 well.
NO. 3 _____
NO. 4 _____

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0095	1.0091		
pH When Sampled				
pH When Received	7.50	7.00		
Bicarbonate as HCO ₃	278	298		
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	3,150	3,200		
Calcium as Ca	760	860		
Magnesium as Mg	304	255		
Sodium and/or Potassium	1,194	815		
Sulfate as SO ₄	2,225	1,755		
Chloride as Cl	2,272	2,059		
Iron as Fe	129	18		
Barium as Ba	0	0		
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	7,034	6,042		
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen				
Hydrogen Sulfide	0.0	0.0		
Resistivity, ohm-cm at 77° F.	0.935	1.065		
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

By 
Greg Ogden, B.S.



Regulatory Department

March 16, 2012

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Chevron Midcontinent, L.P.
15 Smith Rd.
Midland, TX 79705

Re: Application for administrative approval of the Caviness-Paine 4 well.
Application for salt water disposal
Located in Unit J of Section 15, T-23-S R-28-E
2310' FSL & 1650' FEL, NMPM
Eddy County, New Mexico

To Whom It May Concern:

Please find a copy of the 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. 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 Director may approval this application.

Please call or e mail me if I can answer any questions or concerns you may have.

Sincerely,

A handwritten signature in black ink, appearing to read "Bryan Arrant".

Bryan Arrant
Regulatory Specialist II



Regulatory Department

March 16, 2012

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Clara Knight
925 Oakwood Dr.
Castle Rock, CO 80107

Re: Application for administrative approval of the Caviness-Paine 4 well.
Application for salt water disposal
Located in Unit J of Section 15, T-23-S R-28-E
2310' FSL & 1650' FEL, NMPM
Eddy County, New Mexico

Dear Ms. Knight or To Whom It May Concern:

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

This application is being provided to you as the surface owner of the land upon which the subject well is located. 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 Director may approval this application.

Please call or e mail me if I can answer any questions or concerns you may have.

Sincerely,

A handwritten signature in black ink, appearing to read "Bryan Arrant", written over a horizontal line.

Bryan Arrant
Regulatory Specialist II



Regulatory Department

March 16, 2012

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Merit Energy Company, LLC
13727 Noel Rd., Suite 500
Dallas, TX 75240

Re: Application for administrative approval of the Caviness-Paine 4 well.
Application for salt water disposal
Located in Unit J of Section 15, T-23-S R-28-E
2310' FSL & 1650' FEL, NMPM
Eddy County, New Mexico

To Whom It May Concern:

Please find a copy of the 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. 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 Director may approval this application.

Please call or e mail me if I can answer any questions or concerns you may have.

Sincerely,

A handwritten signature in black ink that reads "Bryan Arrant".

Bryan Arrant
Regulatory Specialist II



Regulatory Department

March 16, 2012

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Spindle Top Oil & Gas Co.
12850 Spurling Road, Ste. 200
Dallas, TX 75230

Re: Application for administrative approval of the Caviness-Paine 4 well.
Application for salt water disposal
Located in Unit J of Section 15, T-23-S R-28-E
2310' FSL & 1650' FEL, NMPM
Eddy County, New Mexico

To Whom It May Concern:

Please find a copy of the 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. 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 Director may approval this application.

Please call or e mail me if I can answer any questions or concerns you may have.

Sincerely,

A handwritten signature in cursive script, appearing to read "Bryan Arrant".

Bryan Arrant
Regulatory Specialist II

LIST OF INTEREST OWNERS

Chevron Midcontinent, L.P.
15 Smith Rd.
Midland, TX 79795

R.C. Bennett Company
P.O. Box 264
Midland, TX 79702

Merit Energy Company, LLC
13727 Noel Rd., Suite. 500
Dallas, TX 75240

Spindle Top Oil & Gas Co.
12850 Spurling Road, Ste. 200
Dallas, TX 75230

Surface Owner:
Clara Knight
925 Oakwood Dr.
Castle Rock, CO 80107

Henry McDonald

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS. FOLD AT DOTTED LINE
CERTIFIED MAIL™



7010 1060 0000 0256 8152
7010 1060 0000 0256 8152

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com
OFFICIAL USE

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To
R.C. Bennett Co.
Street, Apt. No.,
or PO Box No. **P.O. Box 264**
City, State, ZIP+4
Midland, TX 79702

PS Form 3800, August 2005 See Reverse for Instructions

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS. FOLD AT DOTTED LINE
CERTIFIED MAIL™



7010 1060 0000 0256 8169
7010 1060 0000 0256 8169

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com
OFFICIAL USE

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To
Merit Energy Co., LLC
Street, Apt. No.,
or PO Box No. **13727 Noel Rd. Ste. 500**
City, State, ZIP+4
Dallas, TX 75240

PS Form 3800, August 2005 See Reverse for Instructions

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS. FOLD AT DOTTED LINE
CERTIFIED MAIL™



7010 1060 0000 0256 8145
7010 1060 0000 0256 8145

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com
OFFICIAL USE

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To
Chevron Midcontinent, L.P.
Street, Apt. No.,
or PO Box No. **15 Smith Rd.**
City, State, ZIP+4
Midland, TX 79705

PS Form 3800, August 2005 See Reverse for Instructions

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS. FOLD AT DOTTED LINE.

CERTIFIED MAIL™



7010 1060 0000 0256 8190
7010 1060 0000 0256 8190

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To Clara Knight
Street, Apt. No.,
or PO Box No. 925 Oakwood Dr.
City, State, ZIP+4 Castle Rock, CO 80107

PS Form 3800, August 2006 See Reverse for Instructions

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS. FOLD AT DOTTED LINE.

CERTIFIED MAIL™



7010 1060 0000 0256 8176
7010 1060 0000 0256 8176

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To Spindletop Oil & Gas Co.
Street, Apt. No.,
or PO Box No. 12850 Spurling Road, Ste 200
City, State, ZIP+4 Dallas, TX 75230

PS Form 3800, August 2006 See Reverse for Instructions

Jones, William V., EMNRD

From: Bryan Arrant [bryan.arrant@chk.com]
Sent: Monday, March 26, 2012 8:13 AM
To: Jones, William V., EMNRD
Subject: CAVINESS-PAINE 4 (891225;C-108 API#3001526622)
Attachments: 20120326085805491.pdf

Will,

I you need them, please find copies of the signed certified mail receipts for the C-108 application on the CAVINESS-PAINE 4 well.

They all are back in.

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

This email (and attachments if any) is intended only for the use of the individual or entity to which it is addressed, and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this email is not the intended recipient, or the employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately by return email and destroy all copies of the email (and attachments if any).

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
 Clara Knight
 925 Oakwood Dr.
 Castle Rock, CO 80107

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 X *Lon Vanhook* Agent Addressee

B. Received by (Printed Name)
 Lon Vanhook

C. Date of Delivery
 3/19/12

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
 Menit Energy Co., LLC
 13727 Novl Rd, Ste. 500
 Dallas, TX 75240

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 X *Clara Knight* Agent Addressee

B. Received by (Printed Name)
 Clara Knight

C. Date of Delivery
 3/19/12

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

2. Article Number (Transfer from service label) 7010 1060 0000 0256 8190
 PS Form 3811, February 2004 Domestic Return Receipt 102555-02-00-1543

2. Article Number (Transfer from service label) 7010 1060 0000 0256 8169
 PS Form 3811, February 2004 Domestic Return Receipt 102555-02-00-1544

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
 R. C. Bennett Co.
 P.O. Box 264
 Midland, TX 79702

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 X *Susan A. Scott* Agent Addressee

B. Received by (Printed Name)
 SUSAN A. SCOTT

C. Date of Delivery
 3/19/12

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
 Spindletop Oil & Gas Co.
 12450 Spurling Road, Ste. 200
 Dallas, TX 75230

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 X *Robert* Agent Addressee

B. Received by (Printed Name)
 Robert

C. Date of Delivery
 3/19/12

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

2. Article Number (Transfer from service label) 7010 1060 0000 0256 8152
 PS Form 3811, February 2004 Domestic Return Receipt 102555-02-00-1543

2. Article Number (Transfer from service label) 7010 1060 0000 0256 8176
 PS Form 3811, February 2004 Domestic Return Receipt 102555-02-00-1544

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
 Chevron Midcontinent, L.P.
 15 Smith Rd.
 Midland, TX 79705

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 X *Lois J. Johnson* Agent Addressee

B. Received by (Printed Name)
 Lois J. Johnson

C. Date of Delivery
 3-19-12

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

2. Article Number (Transfer from service label) 7010 1060 0000 0256 8145
 PS Form 3811, February 2004 Domestic Return Receipt 102555-02-00-1543

Jones, William V., EMNRD

From: Bryan Arrant [bryan.arrant@chk.com]
Sent: Thursday, March 29, 2012 1:00 PM
To: Jones, William V., EMNRD
Cc: Teresa Long; Shannon Glancy; Terry Frohnafel
Subject: FW: CAVINESS-PAINE 4 (891225;C-108 API#3001526622)

Importance: High

Will,

Teresa Long (CHK-Land Department for Permian) informed me that:

The surface owner for the NWSE of Sec. 15-23S-28E (Caviness Paine 4) has changed to Henry McDonald, P.O. Box 597, Loving, NM 88256.

We were provided with incorrect information of the current land owner when we first inquired about this matter.

I feel that it is best to re-send the C-108 application (in its entirety) to all interest owners listed so that they can be advised of the correction, and the YABRO A COM 1 well that is in the AOR. This well was not listed in the AOR or the tabulation of wells on the C-108 submitted on 3/16/2012.

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

From: Bryan Arrant
Sent: Monday, March 26, 2012 9:21 AM
To: Teresa Long
Subject: FW: CAVINESS-PAINE 4 (891225;C-108 API#3001526622)

How are you?

Someone else signed for Clara Knight on the certified mail receipt for the C-108 application I sent out.

I would assume it is not an issue, providing that on record she has her address according to UPS records.

Thanks, Bryan

Jones, William V., EMNRD

From: Bryan Arrant [bryan.arrant@chk.com]
Sent: Tuesday, April 10, 2012 3:28 PM
To: Jones, William V., EMNRD
Subject: CAVINESS-PAINE 4(C-108, API# 3026622)
Attachments: 20120410161156907.pdf

Will,

We got all the certified return receipts back with signatures if you need them for our C-108 application.

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

This email (and attachments if any) is intended only for the use of the individual or entity to which it is addressed, and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this email is not the intended recipient, or the employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately by return email and destroy all copies of the email (and attachments if any).

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> Complete Items 1, 2, and 3. Also complete Item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	A. Signature <input checked="" type="checkbox"/> X <i>[Signature]</i>	<input type="checkbox"/> Agent <input type="checkbox"/> Addressee
1. Article Addressed to: Spindletop Oil & Gas Co. 12850 Spooling Rd., Ste. 200 Dallas, TX 75230	B. Received by (Printed Name)	C. Date of Delivery 4/4/02
	D. Is delivery address different from Item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
	3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.	
	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	
2. Article Number (Transfer from service label) 7010 3090 0000 1552 7684		
PS Form 3811, February 2004 Domestic Return Receipt 102595-02-11-1540		

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> Complete Items 1, 2, and 3. Also complete Item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	A. Signature <input checked="" type="checkbox"/> X <i>[Signature]</i>	<input type="checkbox"/> Agent <input type="checkbox"/> Addressee
1. Article Addressed to: Merit Energy Co., LLC 13727 Noel Rd., Ste. 500 Dallas, TX 75240	B. Received by (Printed Name) ADAMS	C. Date of Delivery 4-26-02
	D. Is delivery address different from Item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
	3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.	
	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	
2. Article Number (Transfer from service label) 7010 3090 0000 1552 7714		
PS Form 3811, February 2004 Domestic Return Receipt 102595-02-11-1540		

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> Complete Items 1, 2, and 3. Also complete Item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	A. Signature <input checked="" type="checkbox"/> X <i>[Signature]</i>	<input type="checkbox"/> Agent <input type="checkbox"/> Addressee
1. Article Addressed to: Harry McDonald P.O. Box 597 Loving, NM. 88256	B. Received by (Printed Name) Rhonda Jeger	C. Date of Delivery 4-16-02
	D. Is delivery address different from Item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
	3. Service Type <input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.	
	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	
2. Article Number (Transfer from service label) 7010 3090 0000 1552 7721		
PS Form 3811, February 2004 Domestic Return Receipt 102595-02-11-1540		

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> ■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature X <i>Leola Johnson</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (<i>Printed Name</i>) <i>Leola Johnson</i> C. Date of Delivery <i>4-4-12</i></p>
<p>1. Article Addressed to: Chevron Midcontinent, L.P. 15 Smith Rd. Midland, TX 79702</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <p>3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (<i>Extra Fee</i>) <input type="checkbox"/> Yes</p>
<p>2. Article Number (Transfer from service label) <i>7010 3090 0000 1552 7707</i></p> <p>PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540</p>	

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> ■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature X <i>Susan A. Scott</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (<i>Printed Name</i>) <i>SUSAN A. SCOTT</i> C. Date of Delivery <i>4/4/12</i></p>
<p>1. Article Addressed to: R.C. Bennett Company P.O. Box 264 Midland, TX 79702</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <p>3. Service Type <input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (<i>Extra Fee</i>) <input type="checkbox"/> Yes</p>
<p>2. Article Number (Transfer from service label) <i>7010 3090 0000 1552 7691</i></p> <p>PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540</p>	

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Thursday, April 19, 2012 4:48 PM
To: 'Bryan Arrant'
Cc: Hawkins, Phil, EMNRD; Shapard, Craig, EMNRD
Subject: Disposal application from Chesapeake: CAVINESS-PAINE 4 API# 30-015-26622

Hey Bryan,

Would you sketch out a "After Conversion" wellbore diagram and email or send it? I couldn't find one.

Also, the procedure shows setting the internal casing plug around 4000 feet leaving about 1000 feet of rat hole – we have been asking folks to set a plug within 200 feet of the lowermost perforation in a disposal well – if you would show this on the diagram, it would be cool.

Since there are no water samples from the Bell Canyon – would you state that the water salinity is over 10,000 in that disposal formation target interval? As long as you can make that statement truthfully.

All else looks ready to go.

Will

Injection Permit Checklist (11/15/2010)

WFX _____ PMX _____ SWD 1327 Permit Date 4/22/12 UIC Qtr (A) (M) (S)

Wells 1 Well Name(s): CAVINESS-PAINE #4

API Num: 30-0 15-26622 Spud Date: 2/4/91 New/Old: N (UIC primacy March 7, 1982)

Footages 2310 FSL/160 FEL Unit J Sec 15 Tsp 23E Rge 28S County EDDY

General Location: 1 1/2 mi NE of LOVING

Operator: Cresapeake OPERATING, INC Contact _____

OGRID: 147179 RULE 5.9 Compliance (Wells) 3/14/9 (Finan Assur) OK IS 5.9 OK? OK

Well File Reviewed _____ Current Status: SI OIL BRUSH

Planned Work to Well: _____

Diagrams: Before Conversion After Conversion _____ Elogs in Imaging File:

Well Details:	Sizes		Setting Depths	Stage Tool	Cement Sx or Cf	Determination Method
	Hole.....	Pipe				
New ___ Existing ___ Surface	<u>12 1/4</u>	<u>8 5/8</u>	<u>601</u>	<u>—</u>	<u>310 SX</u>	<u>CIRC</u>
New ___ Existing ___ Interm						
New ___ Existing ___ LongSt	<u>7 7/8</u>	<u>5 1/2</u>	<u>6352' TD</u>	<u>4001</u>	<u>1735 SX</u>	
New ___ Existing ___ Liner						
New ___ Existing ___ OpenHole						

Depths/Formations:	Depths, Ft.	Formation	Tops?
Formation(s) Above	<u>2614</u>	<u>Bell C.</u>	<input checked="" type="checkbox"/>
Injection TOP:	<u>2930'</u>	<u>Bell C.</u>	Max. PSI <u>586</u> OpenHole ___ Perfs <input checked="" type="checkbox"/>
Injection BOTTOM:	<u>3100 3010</u>	<u>" "</u>	Tubing Size <u>2 3/8</u> Packer Depth _____
Formation(s) Below	<u>3610</u>	<u>Cherry C.</u>	<input checked="" type="checkbox"/>

Capitan Reef? _____ (Potash? _____ Noticed? _____) (WIPP? _____ Noticed? _____) Salado Top/Bot 508'-2355' Cliff House? _____

Fresh Water: Depths: <240' Formation QAL Wells? yes Analysis? Affirmative Statement

Disposal Fluid Analysis? Sources: Del/BS.

Disposal Interval: Analysis? Production Potential/Testing: Regularly NON PRODUCTIVE

Notice: Newspaper Date 2/22/12 Surface Owner CLARA KNIGHT Mineral Owner(s) Henry McDONALD

RULE 26.7(A) Affected Persons: See APP.

AOR: Maps? Well List? Producing in Interval? N^o Wellbore Diagrams?

.....Active Wells 12 Repairs? 0 Which Wells? _____

.....P&A Wells 1 Repairs? 0 Which Wells? _____

Issues: See CRP ATTACHED! Request Sent _____ Reply: _____