

District I
1625 N. French Dr , Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S St. Francis Dr , Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
June 16, 2008

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

Submit to appropriate District Office

RECEIVED
NOV - 6 2009
NMOCD ARTESIA

☐ AMENDED REPORT

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN,
PLUGBACK, OR ADD A ZONE**

¹ Operator Name and Address Chesapeake Operating, Inc P.O Box 18496 Oklahoma City, OK 73154-0496		² OGRID Number 147179
		³ API Number 30 - 015-26622
³ Property Code 301167	⁵ Property Name Caviness Paine	⁶ Well No 4
⁹ Proposed Pool 1 SWD, Delaware		¹⁰ Proposed Pool 2

⁷ Surface Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South	Feet from the	East/West	County
J	15	23S	28E		2310'	South	1650'	East	Eddy

⁸ Proposed Bottom Hole Location If Different From Surface

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Additional Well Information

¹¹ Work Type Code E	¹² Well Type Code S	¹³ Cable/Rotary C	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 2997' GR
¹⁶ Multiple No	¹⁷ Proposed Depth BP-5095'	¹⁸ Formation Delaware	¹⁹ Contractor TBD	²⁰ Spud Date ASAP

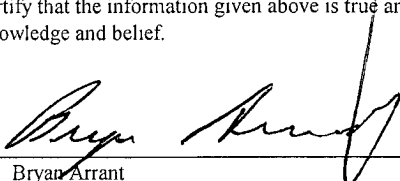
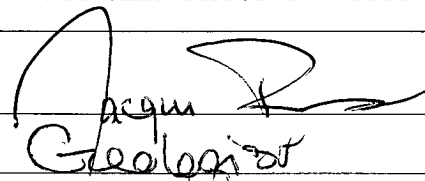
²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12 1/4"	8 5/8"	24#	501'	310 sxs	0'
7 7/8"	5 1/2"	15.5#	6352'	1735 sxs	0'

²² Describe the proposed program If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone Describe the blowout prevention program, if any Use additional sheets if necessary.

Chesapeake Operating, Inc. request to convert this well to SWD Please find NMOCD's C-102 land plat, C-144(CLEZ) pit permit, procedure to convert to SWD and an actual and proposed well bore diagram.

Please note Approval to dispose will be obtained by filing C-108 application with the NMOCD's Santa Fe District office. Application is for "work only"

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.		OIL CONSERVATION DIVISION	
Signature 		Approved by. 	
Printed name Bryan Arrant		Title Geologist	
Title Senior Regulatory Compliance Specialist		Approval Date 12/2/09	Expiration Date
E-mail Address. bryan.arrant@chk.com			
Date: 11/03/2009	Phone. 405-935-3782	Conditions of Approval Attached ☐	

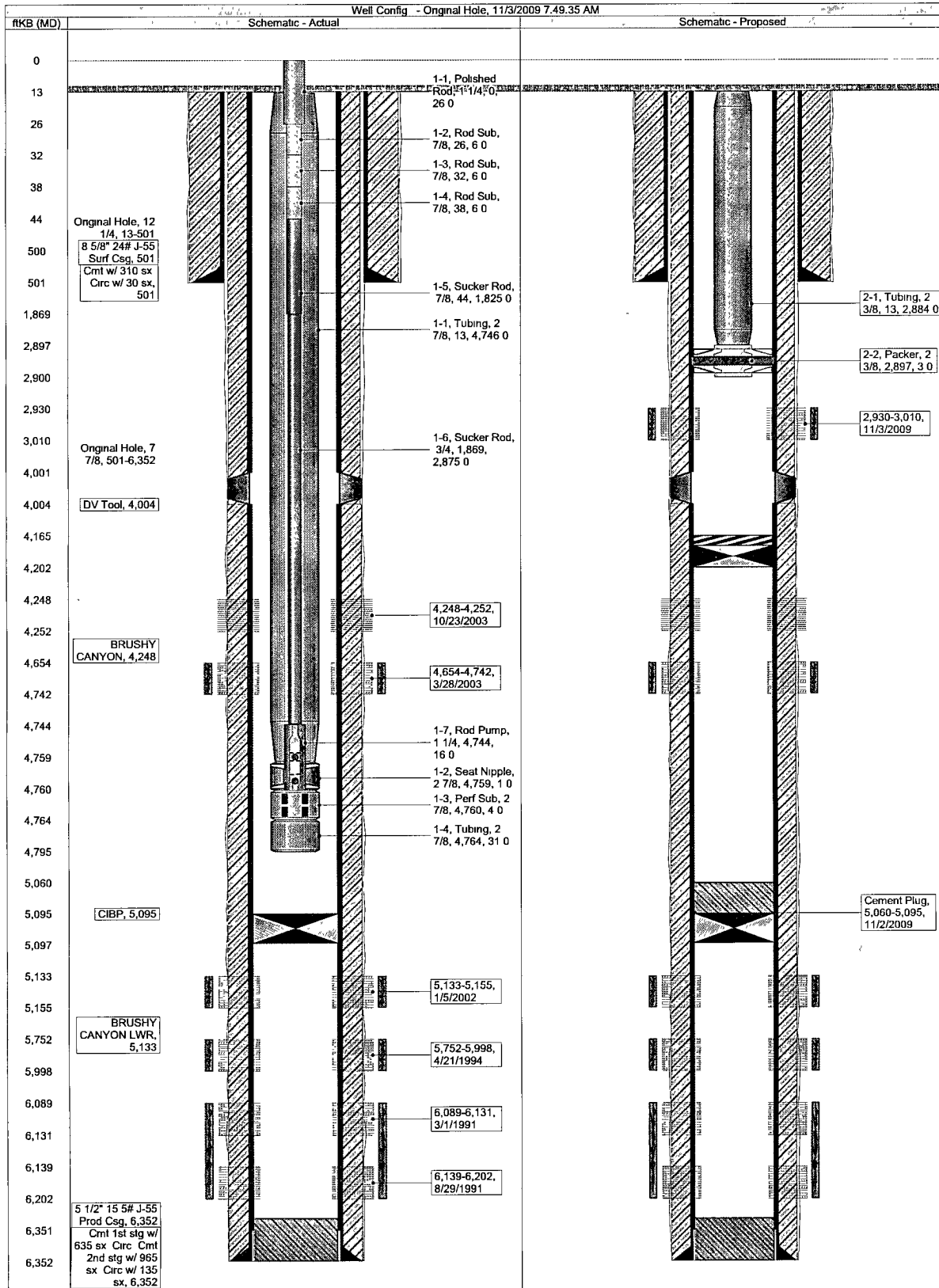


Proposal - Workover

CAVINESS-PAINE 4

Field: LOVING EAST (DELAWARE)
County: EDDY
State: NEW MEXICO
Location: SEC 15, 23S-28E, 2310 FSL & 1650 FEL
Elevation: GL 2,997.00 KB 3,010.00
KB Height: 13.00

Spud Date: 2/4/1991
Initial Compl. Date:
API #: 3001526622
CHK Property #: 891225
1st Prod Date: 4/30/1991
PBDT: Original Hole - 5095.0
TD: 6,352.0



Caviness-Paine 4
Eddy County, New Mexico
Convert to SWD Procedure

Date: October 27, 2009

Location: 2310' FSL & 1650' FEL Sec. 15-T23S-R28E

Casing: 5 ½" 15.5# J-55 0-6,352' ID – 4.950", Drift – 4.825" Burst – 4,810 psi

PBTD/TD: 5,095'/6,352'

Current Perfs: Delaware (Brushy Canyon) 4,248-52', 4,654-4,742'
Delaware (Brushy Canyon) 5,133-6,202' Below CIBP

Proposed Perfs: Delaware (Bell Canyon) 2,930-41', 2,948-62', 2,968-76', 2,980-3010'

Recommended Procedure:

1. MIRU PU. NU BOP.
2. POH w/ rods laying down. POH w/ tubing.
3. Rig up wireline co. Dump bail 35' of cement on top of CIBP @ 5,095'.
4. Set CIBP @ 4,200'. Dump bail 35' of cement on top of CIBP. Pressure test casing to 500 psi.
5. Perforate Bell Canyon 2930-41' (11'), 2948-62' (14'), 2968-76' (8'), 2980-3010' (30') 4 spf.
6. RIH w/ treating packer to 2,800'.
7. Acidize Bell Canyon perfs with 5,000 gal 15% NEFE, dropping 300 perf balls throughout job. Displace acid to perfs. Surge balls off perfs. Release packer and drop down through perfs to wipe off balls. POH w/ packer.
8. Frac Bell Canyon down casing per frac recommendation (anticipate 50,000# sand, 40 bpm).
9. RIH w/ bit on tubing to 4000' and check for fill. POH w/ bit.
10. RIH w/ 4 ½" Baker Loc-set packer on 2 3/8" IPC tbg. to 2,900'. Load back side with packer fluid. Set packer and pressure test casing to 500 psi.
11. ND BOP/NU WH. RD MO. Run MIT w/ OCD. Hook well up for disposal.