

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised August 1, 2011

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-015-26622
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name CAVINESS-PAINE
8. Well Number 4
9. OGRID Number 4323
10. Pool name or Wildcat SWD; DELAWARE

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	11. Elevation (Show whether DR, RKB, RT, GR, etc.) 2997' GR
2. Name of Operator Chevron, U S A, Inc.	
3. Address of Operator 15 Smith Road Midland, TX 79705	
4. Well Location Unit Letter J : 2310' feet from the South line and 1650' feet from the East line Section 15 Township 23 S Range 28 E NMPM County Eddy	

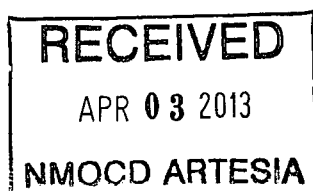
12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☒	
DOWNHOLE COMMINGLE ☐			
OTHER: Extend for Conversion to SWD ☒		OTHER: ☒	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Please find our request in order to convert this well to SWD within one year.

Administrative Order SWD-1327 is attached, along with the procedure to convert, well bore diagrams, and NMOCD's C-144(CLEZ) pit permit.



SWD 1327 DOES NOT EXPIRE UNTIL
4/25/2014 - NO EXTENSION NEEDED.
AN EXTENSION TO AN ORDER MUST BE
HANDLED IN SANTA FE.
RE 4/10/13

Spud Date:

Rig Release Date:

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

SIGNATURE Bryan Arrant TITLE Regulatory Specialist II DATE 03/19/2013

Type or print name Bryan Arrant (Agent) E-mail address: bryan.arrant@chk.com PHONE: (405)935-3782

For State Use Only

APPROVED BY: T. C. Shepard TITLE Geologist DATE 4/5/2013

Conditions of Approval (if any):

API# 30-015-26622

Location: S15-23S-28E

2310' FSL and 1650' FEL

PREWORK:

1. Utilize the rig move check list.
2. Check anchors and verify that pull test has been completed in the last 24 months.
3. Ensure location of & distance to power lines is in accordance with MCA SWP. Complete and electrical variance and electrical variance RUMS if necessary.
4. Ensure that location is of adequate build and construction.
5. Ensure that elevators and other lifting equipment are inspected. Caliper all lifting equipment at the beginning of each day or when sizes change.
6. When NU anything over and open wellhead (EPA, etc.) ensure the hole is covered to avoid dropping anything downhole.
7. For wells to be worked on or drilled in an H₂S field/area, include the anticipated maximum amount of H₂S that an individual could be exposed to along with the ROE calculations for 100 ppm and 500 ppm.
8. If the possibility of trapped pressure exists, check for possible obstructions by:
 - Pumping through the fish/tubular – this is not guaranteed with an old fish as the possibility of a hole above the obstruction could yield inconclusive results
 - Dummy run – make a dummy run through the fish/tubular with sandline, slickline, eline or rods to verify no obstruction. Prior to making any dummy run contact RE and discuss.

If unable to verify that there is no obstruction above the connection to be broken, or if there is an obstruction:

- Hot Tap at the connection to check for pressure and bleed off

Observe and watch for signs / indicators of pressure as connection is being broken. Use mud bucket (with seals removed) and clear all non-essential personnel from the floor.

PROCEDURE:

*All necessary steps must be taken to ensure that the injected water flows only into the desired Bell Canyon interval.

1. *This procedure is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland Office well files and computer databases as of 2/6/2013. Verify what is in the hole with the well file in the Hobbs Field office. Discuss w/ WEO Engineer, Workover Rep, OS, ALS, and FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.*
2. MIRU pulling unit. Bleed pressure from well, if any. Ensure that elevators and other lifting equipment are inspected. Caliper all lifting equipment at the beginning of each day or when sizes change. Pump down casing with 8.6 PPG cut brine water, if necessary to kill well. Remove WH. Install BOP's and test as required.
3. PU and RIH with 2 7/8" WS and 4 3/4" bit. C/O to CIBP at 4165'.
4. POOH and LD 2 7/8" WS and bit.
5. MIRU Wireline Co. Install lubricator and test as required. GIH with gauge ring and tag CIBP at 4165'.
6. POOH. PU and GIH with 5 1/2" CIBP to ~ 3070'. Set 5 1/2" CIBP at 3070'.
7. Bail 20' of cement on top of CIBP to 3050'. Allow cement to set.
8. Tag the top of the cement plug and record the depth. If less than 20' of cement it tagged, bail more cement on top of the plug.
9. GIH with 3 1/8" perf gun and perforate Bell Canyon interval as follows: 2930-2941', 2948'-2962', 2968'-2976', 2980'-3010' with 3 SPF at 120 degree phasing. Use log correlations to perforate accurate depths.
10. POOH. RDMO wireline co.
11. Ensure that elevators and other lifting equipment are inspected. Caliper all lifting equipment at the beginning of each day or when sizes change.
12. PU and TIH with 5 1/2" treating packer on 3 1/2" WS to ~2900'. Hydrotest WS in hole to 6000 psi. Set packer at 2900'.
13. MIRU step rate test equipment and pump truck. Follow the attached Step Rate Test Procedure to acquire a frac pressure.
14. Install frac valve and frac pack. Test casing and packer to 500 psi. RDMO pulling unit.
15. MIRU Halliburton. Test equipment as required.

16. Acidize with 1500 gals of 15% HCL at 15 BPM. Max surface pressure is 5500 psi.
17. Frac interval, 2930'-3010' using 50,000# sand at 40 BPM. Max surface pressure is 5500 psi.
18. Flush interval and record ISIP after 5, 10 and 15 minutes of SI tubing.
19. RDMO Halliburton.
20. MIRU pulling unit. ND frac valve and pack.
21. RU flowback equipment. Stake lines with steel hobbles. Flowback well until production ceases or 100% of frac load has been recovered.
22. Release packer. POOH and LD WS and packer.
23. Ensure that elevators and other lifting equipment are inspected. Caliper all lifting equipment at the beginning of each day or when sizes change.
24. PU and TIH 2 7/8" WS and 4 3/4" bit. Clean out to PBTD at 3050'. Circulate well until clean.
25. POOH and LD 2 7/8" WS and bit. PU and TIH with 5 1/2" packer with pump out plug and 2 7/8" TK-15 IPC tubing to approximately 2900'. Set packer at 2900'.
26. Load annulus and tubing with packer fluid. Pressure test to 500 psi to check for leaks in the tubing, casing or packer.
27. ND BOP and NU WH. Pressure tubing to blow out pump out plug. Prepare to conduct MIT. OCD must be informed 24 hours before the test to witness. *TEST MUST BE WITNESSED. CONTACT OCD TO SET UP DATE AND TIME. RE*
28. Pressure test 5 1/2" csg to 500 psi and record chart for 30 minutes. If there is less than a 10% change in pressure, the MIT passes. **Note: If csg does not test successfully, PUH testing to pinpoint casing leak.** Contact Production Engineer, Alyssa Davanzo, before continuing procedure at (720) 244-4417 or (432) 687-7659.
29. Send chart to NMOCD. ND BOP. NU WH. RDMO pulling unit.
30. Hook up well for water disposal.

API# 30-015-26622

Location: S15-23S-28E

2310' FSL and 1650' FEL

Well Data:

- Approved order from NMOC D has a max surface pressure of 586 psi.
- Perforation Interval: 2930'-3010'

Procedure:

1. *This procedure is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland Office well files and computer databases as of 1/29/2013. Verify what is in the hole with the well file in the Eunice Field office. Discuss w/ WEO Engineer, Workover Rep, OS, ALS, and FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.*
2. MIRU step rate test control trailer. RU pump truck and transport.
3. NU lubricator and test to 4500 psi.
4. RIH BH pressure gauge using slickline operations to ~2970', the midpoint of the perforations.
5. Begin conducting step rate test. Maintain a stable rate of 100 BWIPD for 10 minutes and wait for the pressure to stabilize before continuing the test.
6. Pump each 10 minute interval at the following injection rates: 250 BPD, 500 BPD, 1000 BPD, 1500 BPD, 2000 BPD, 2500 BPD and 3000 BPD. Injection rates may vary based on collected data from the previous step and the estimated frac pressure. Three data points above and below the frac pressure are required for a complete test. Pump approximately 80 bbls total, assuming each stage is 10 minutes.

Potential Pumping Schedule (10 min/Stage)				
Stage	BWIPD	BWIPM	Volume/Stage	Rounded Volume/Stage
1	100	0.07	0.69	1.00
2	250	0.17	1.74	2.00
3	500	0.35	3.47	4.00
4	1000	0.69	6.94	7.00
5	1500	1.04	10.42	11.00
6	2000	1.39	13.89	14.00
7	2500	1.74	17.36	18.00
8	3000	2.08	20.83	21.00
		Total bbls	75.35	80.00

7. Record stabilized pressure and injection rate for each step and chart results.
8. POOH with BH pressure gauge.
9. ND lubricator.
10. RDMO step rate test equipment and pump truck.

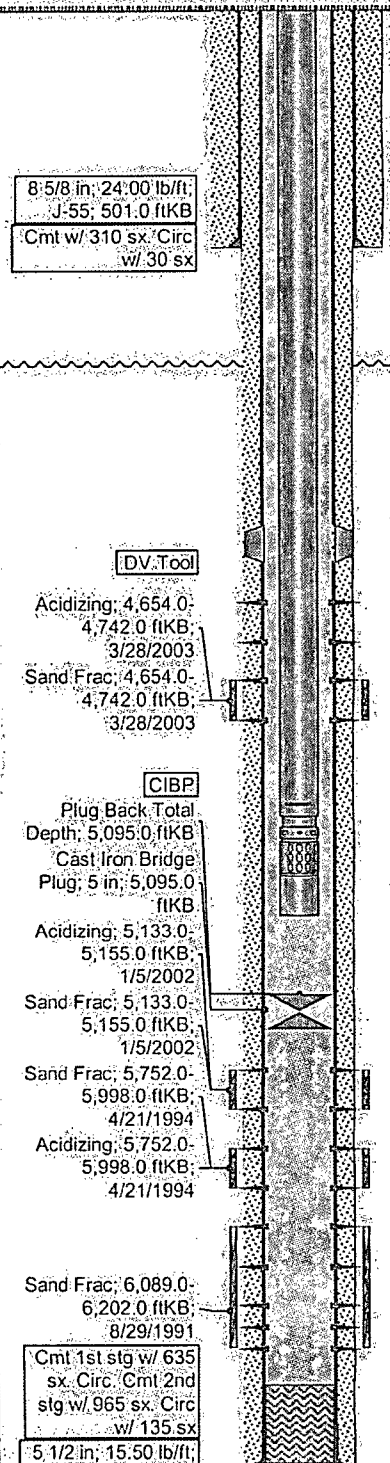
Current Wellbore Schematic

WELL (PN): CAVINESS-PAINE 4(CVX) (891225)
 FIELD OFFICE: BRG - BRG PETROLEUM
 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:

VERTICAL - Original Hole, 3/19/2013 2:13:59 PM		Pumping Units															
Vertical schematic (actual)		Zones		Type	Make	Model	SPM	SL (in)	Install Date								
				Conventional Crank	Churchhill	D160		64.00	3/28/1991								
Surface Casing; Set @ 501.0 ftKB ; Original Hole																	
Set Tension (kips)		Mud Weight		Cut Pull Date		Depth Cut Pull (ftKB)											
Item Des	OD (in)	ID (in)	Drift (in)	Wt (lb/ft)	Grade	Top Thread	Top (ftKB)	Btm (ftKB)	Len (ft)								
Casing Joints	8 5/8	8.097	7.972	24.00	J-55	ST&C	13.0	500.0	487.00								
Float Shoe	8 5/8						500.0	501.0	1.00								
Production Casing; Set @ 6,352.0 ftKB ; Original Hole																	
Set Tension (kips)		Mud Weight		Cut Pull Date		Depth Cut Pull (ftKB)											
Item Des	OD (in)	ID (in)	Drift (in)	Wt (lb/ft)	Grade	Top Thread	Top (ftKB)	Btm (ftKB)	Len (ft)								
Casing Joints	5 1/2	4.950	4.825	15.50	J-55	LT&C	13.0	4,001.0	3,988.00								
DV Tool	5 1/2						4,001.0	4,004.0	3.00								
Casing Joints	5 1/2	4.950	4.825	15.50	J-55	LT&C	4,004.0	6,351.0	2,347.00								
Float Shoe	5 1/2						6,351.0	6,352.0	1.00								
Description: Surface Casing Cement																	
13.0-501.0																	
Top of Cement (ftKB): 13.0				Top Measurement Method: Returns to Surface													
Fluid	Pump Start Date	Amount (sacks)	Class	Dens (lb/gal)	Vol Pumped (bbl)	Yield (ft ³ /sack)											
	2/4/1991	310															
Description: Production Casing Cement																	
4,004.0-6,352.0																	
Top of Cement (ftKB): 4,004.0				Top Measurement Method: Returns to Surface													
Fluid	Pump Start Date	Amount (sacks)	Class	Dens (lb/gal)	Vol Pumped (bbl)	Yield (ft ³ /sack)											
Lead	2/15/1991	435															
Tail	2/15/1991	200	C														
13.0-4,004.0																	
Top of Cement (ftKB): 13.0				Top Measurement Method: Returns to Surface													
Fluid	Pump Start Date	Amount (sacks)	Class	Dens (lb/gal)	Vol Pumped (bbl)	Yield (ft ³ /sack)											
Lead	2/15/1991	865															
Tail	2/15/1991	100	C														
Tubing String: Tubing - Production																	
Set Depth (ftKB)	Wellbore	Run Date		Pull Date		Cut Pull Date		Depth Cut Pull (ft)									
4,795.0	Original Hole	10/23/2003															
Item Des	OD (in)	ID (in)	Drift (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Jts								
Tubing	2 7/8					13.0	4,759.0	4,746.00									
Seat/Nipple	2 7/8					4,759.0	4,760.0	1.00									
Perf Sub	2 7/8					4,760.0	4,764.0	4.00									
Tubing	2 7/8					4,764.0	4,795.0	31.00									
Perforations																	
Date	Zone		Top (ftKB)		Btm (ftKB)		Shot Dens (shots/ft)	Current Status									
10/23/2003	BRUSHY CANYON, Original Hole		4,248.0		4,252.0			Isolated									
3/28/2003	BRUSHY CANYON, Original Hole		4,654.0		4,742.0			Isolated									
1/5/2002	BRUSHY CANYON LWR, Original Hole		5,133.0		5,155.0			Isolated									
4/21/1994	BRUSHY CANYON LWR, Original Hole		5,752.0		5,998.0			Isolated									

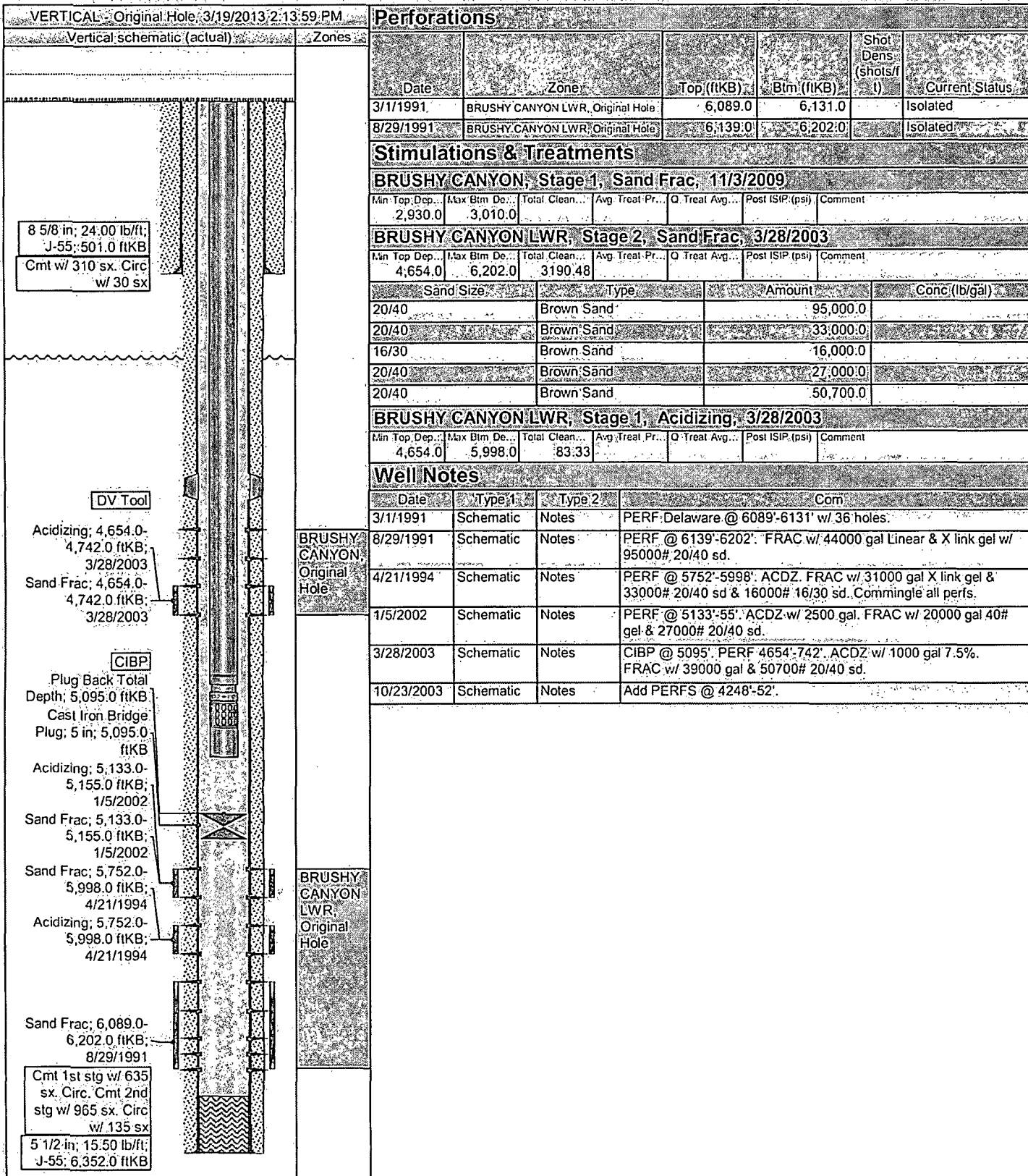
Vertical schematic (actual)	
	
8 5/8 in; 24'00 lb/ft; J-55; 501.0 ftKB Cmt w/ 310 sx Circ w/ 30 sx	
DV Tool	
Acidizing; 4,654.0; 4,742.0 ftKB; 3/28/2003	
Sand Frac; 4,654.0- 4,742.0 ftKB; 3/28/2003	
CIBP	
Plug Back Total Depth; 5,095.0 ftKB	
Cast Iron Bridge Plug; 5 in; 5,095.0 ftKB	
Acidizing; 5,133.0- 5,155.0 ftKB; 1/5/2002	
Sand Frac; 5,133.0- 5,155.0 ftKB; 1/5/2002	
Sand Frac; 5,752.0- 5,998.0 ftKB; 4/21/1994	
Acidizing; 5,752.0- 5,998.0 ftKB; 4/21/1994	
Sand Frac; 6,089.0- 6,202.0 ftKB; 8/29/1991	
Cmt 1st stg w/ 635 sx Circ Cmt 2nd stg w/ 965 sx Circ w/ 135 sx	
5 1/2 in; 15.50 lb/ft; J-55; 6,352.0 ftKB	

Current Wellbore Schematic

WELL (PN): CAVINESS-PAINE 4(CVX) (891225)
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API #: 3001526622
 Serial #:
 SPUD DATE: 2/4/1991
 RIG RELEASE: 2/14/1991
 FIRST SALES:





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
PBD: Original Hole - 5095.0
TD: 6,352.0

