

District I

1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III

1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Form C-101
Revised November 14, 2012

Energy Minerals and Natural Resources

Oil Conservation Division

☐ AMENDED REPORT

1220 South St. Francis Dr.

Santa Fe, NM 87505

HOBBS OGD
JUL 15 2013
RECEIVED

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

Operator Name and Address CAZA OPERATING, LLC. 200 NORTH LORAIN SUITE 1550 MIDLAND, TEXAS 79701		OGRID Number 249099
Property Name LENNOX "32" STATE		API Number 30-025-41270
Property Code 39019		Well No. 4H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
M	32	22S	35E		330	SOUTH	660	WEST	LEA

* Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
D	32	22S	35E		330'	NORTH	660'	WEST	LEA

9. Pool Information

ROCK LAKE-BONE SPRING (57755)	Pool Name 57755	Pool Code 52766
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Additional Well Information

11. Work Type N	12. Well Type O	13. Cable/Rotary ROTARY	14. Lease Type S	15. Ground Level Elevation 3456'
16. Multiple NO	17. Proposed Depth TVD=11,370	18. Formation BONE SPRING	19. Contractor UNKNOWN	20. Spud Date WHEN APPROVED
Depth to Ground water 75'		Distance from nearest fresh water well 1.5 Miles Southwest		Distance to nearest surface water NA

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
CONDUCTOR	26"	20"	NA	40'	Redi-mix	SURFACE
SURFACE	17 1/2"	13 3/8"	54.5#	700'	468 Sx.	SURFACE
INTERMED.	12 1/4"	9 5/8"	40#	5700'	1327 Sx.	SURFACE

Casing/Cement Program: Additional Comments

SEE ATTACHED SHEET FOR DETAIL

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000 PSI	3000 PSI	Cameron or Schaffer

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

I further certify that I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☐, if applicable.

Signature:

Joe T. Janica

Printed name: Joe T. Janica

Title: Permit Eng.

E-mail Address: joejanica@valornet.com

Date: 07/15/13

Phone: 575-391-8503

OIL CONSERVATION DIVISION

Approved By:

[Signature]

Title: Petroleum Engineer

Approved Date: 07/17/13

Expiration Date: 07/17/15

Conditions of Approval Attached

JUL 24 2013 dm

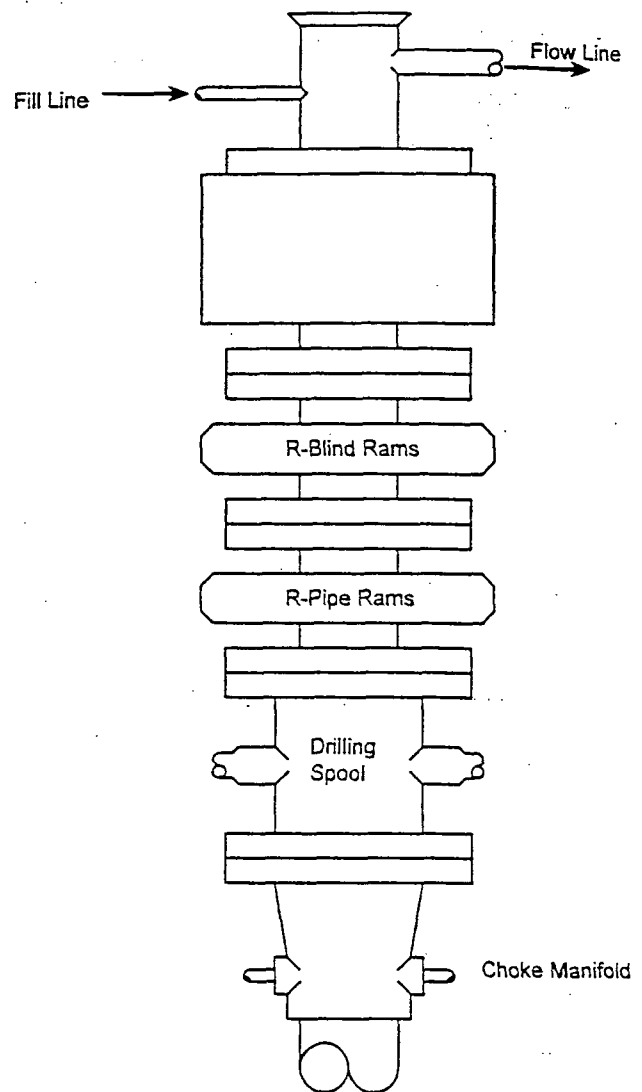
WELL NAME: LENNOX 32 State # 4H
FIELD NAME: WILDCAT
OPERATOR: CAZA OPERATING LLC
CONTRACTOR: TBD

LOCATION:
SL=330 FSL & 660 FWL,
BHL=330 FNL & 660 FWL,
SECTION 32, T22S, R35E,
LEA COUNTY, NEW MEXICO

1. Drill 26" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix
2. Drill 17½" hole to 700'. Run and set 700' of 13 3/8" 54.5# J-55 ST&C casing. Cement with 468 Sx. of cement as follows: 268 Sx. of 35/65 Class "C" POZ cement + 5% Salt, Yield 1.89, tail in with 200 Sx. of Class "C" cement + 2% CaCl Yield 1.32. 50% Excess circulate cement to surface.
3. Drill 12½" hole to 5700'. Run and set 5700' of 9 5/8" casing as follows: 1600' of 9 5/8" 40# HCK-80 LT&C, 4100' of 9 5/8" 40# J-55 LT&C casing. Cement with 1327 Sx. of cement as follows: 1127 Sx. of 35/65 Class "C" POZ cement + 5% Salt, + 6% Gel, Yield 2.09, tail in with 200 Sx. of Class "C" cement + 1% CaCl, Yield 1.32. 50% Excess circulate cement to surface.
4. Drill 8 3/4" hole to 11,850'. Run open hole logs (Dual Laterolog, CNL, LDT, & FMI through selected intervals) from TD back to 5700' 9 5/8" casing shoe, run Gamma Ray, Neutron from 9 5/8" casing shoe back to surface. Set cement plug in pilot hole back to 11,640'±.
5. Run and set 11,640' of 7" 29# P-110 LT&C casing, cement with 1110 Sx. of cement as follows: 810 Sx. of 50/50 Class "H" POZ cement + 5# Gilsonite/Sx. + .125# of Cello Flakes/Sx., + .25% Econolite Yield 1.3, tail in with 300 Sx. of Class "H" cement, Yield 1.18. 35% Excess estimate top of cement 4500' from surface.
6. Set open hole Whipstock oriented for KO point. Drill 6 1/8" hole to a measured depth of 15,785'. Run and set 5085' of 4½" 13.5# P-110 LT&C liner. Cement with 236 Sx. of Class "H" SoluCem cement + fluid loss control, + defoamer, Yield 2.61. 35% Excess Top of cement 10,700'.

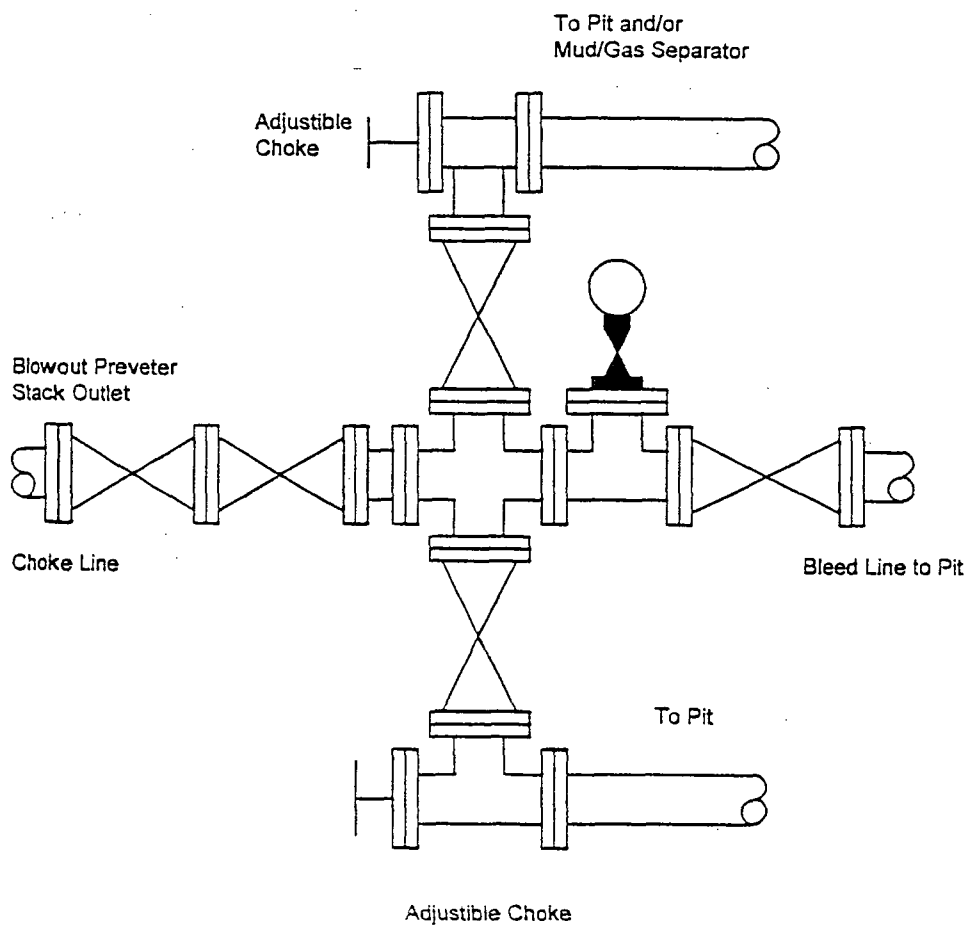
BLOWOUT PREVENTER SYSTEM

5000 PSI



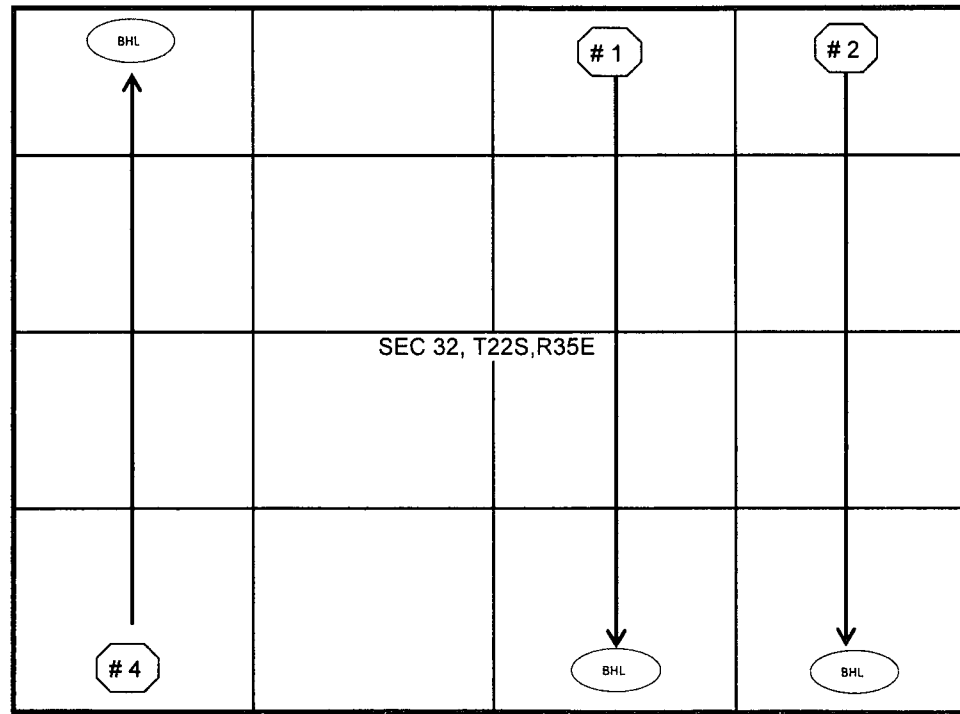
Type 1500 SERIES
5000 psi WP

Choke Manifold Assembly for 5M WP System



LENNOX 32 # 4H 3rd Bones Springs Horizontal

Sec 32, T-22-S, R-35-E, Lea County, New Mexico



MD = 15,785
EOC = 11,643 MD
EOC Lndg = 807 FSL & 660 FWL
TVD = 11,370 ft
BHL = 330 FNL & 660 FWL

Well Name	Surface Location	Depth and Strata	Target TD	Bottom Hole Location	
LENNOX 32 # 4H	330 FSL & 660 FWL	TD = 11,100 3rd Bone Sprgs Hrzs	13,500 Wlfcmp	330 FSL & 1980 FEL	
LENNOX 32 # 1H	330 FNL & 1980 FEL	TD = 11,100 3rd Bone Sprgs Hrzs	13,500 Wlfcmp	330 FSL & 1980 FEL	Planned. N
LENNOX 32 # 2H	330 FNL & 660 FEL	TD = 11,400 3rd Bone Sprgs Hrzs	13,500 Wlfcmp	330 FSL & 660 FEL	± 11,400 T

LONG's METHOD OF SURVEY COMPUTATION

OBLIQUE CIRCULAR ARC INTERPOLATION

6000
#N/A
#N/A
#N/A

MD OF INTERPOLATION DEPTH,(feet)
TVD COORDINATE OF THE DEPTH (feet)
N/S COORDINATE OF DEPTH (feet)
E/W COORDINATE OF DEPTH (feet)

DISTANCE TABLE

STATION A	STATION B
400.00	600.00
300.00	400.00
100.00	300.00
300.00	ft

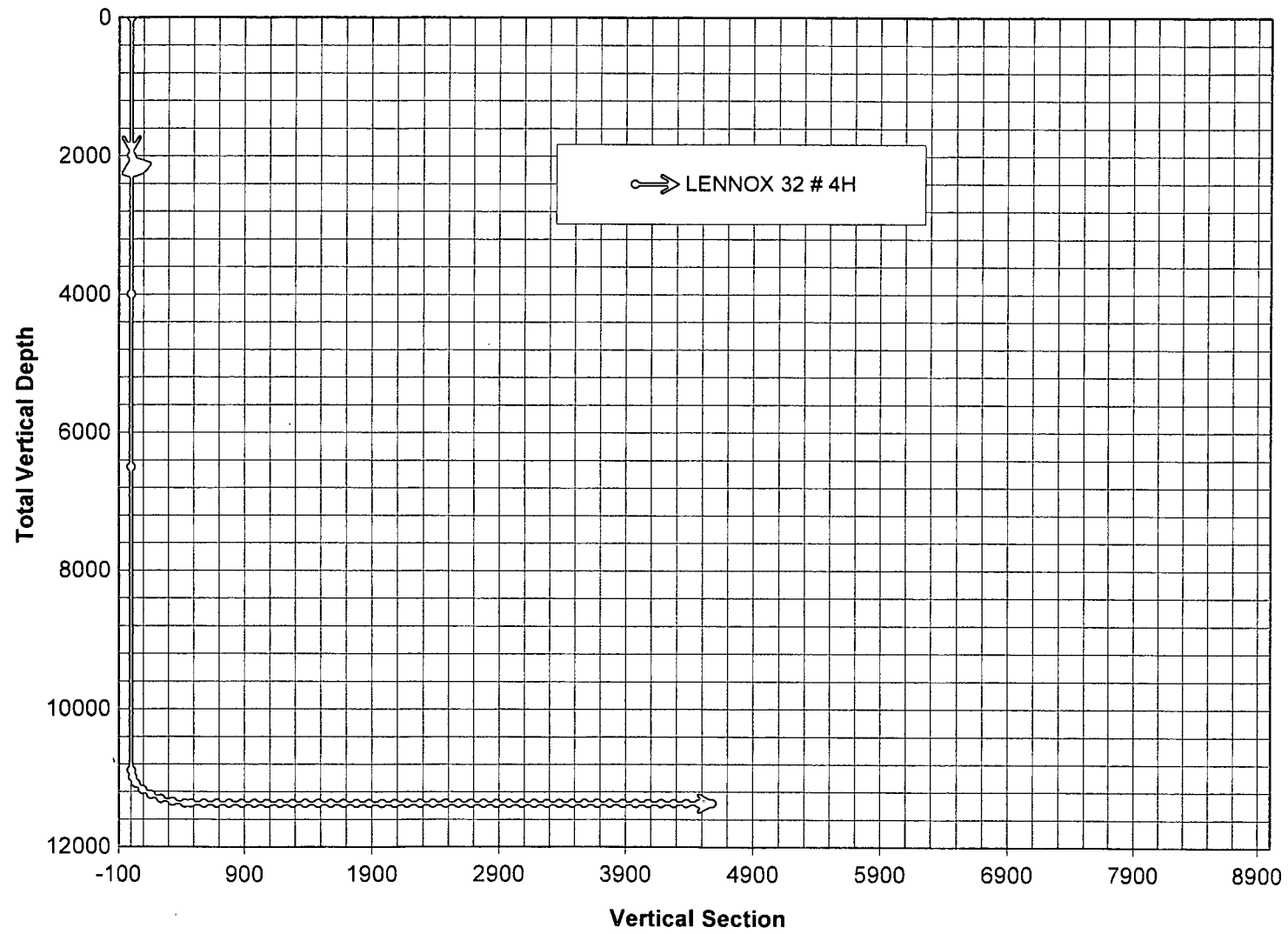
3 D DISTANCE BETWEEN STATION A AND STATION B

TABLE OF SURVEY STATIONS

Calculator =

STA #	ΔMD ft	INCL deg	AZIM deg	MD ft	TVD ft	N+S- ft	E+W- ft	DLS deg/100FT
1	TIE POINT =>	0	0	10893.00	10893.00	0.00	0.00	-
2	100	12	360	10993.00	10992.27	10.43	0.00	12.00
3	100	24	360	11093.00	11087.20	41.28	0.00	12.00
4	100	36	360	11193.00	11173.65	91.19	0.00	12.00
5	100	48	360	11293.00	11247.83	157.98	0.00	12.00
6	100	60	360	11393.00	11306.50	238.73	0.00	12.00
7	100	72	360	11493.00	11347.10	329.92	0.00	12.00
8	100	84	360	11593.00	11367.85	427.56	0.00	12.00
9	50	90	360	11643.00	11370.46	477.46	0.00	12.00
10	100	90	360	11743.00	11370.46	577.46	0.00	0.00
11	100	90	360	11843.00	11370.46	677.46	0.00	0.00
12	100	90	360	11943.00	11370.46	777.46	0.00	0.00
13	100	90	360	12043.00	11370.46	877.46	0.00	0.00
14	100	90	360	12143.00	11370.46	977.46	0.00	0.00
15	100	90	360	12243.00	11370.46	1077.46	0.00	0.00
16	100	90	360	12343.00	11370.46	1177.46	0.00	0.00
17	100	90	360	12443.00	11370.46	1277.46	0.00	0.00
18	100	90	360	12543.00	11370.46	1377.46	0.00	0.00
19	100	90	360	12643.00	11370.46	1477.46	0.00	0.00
20	100	90	360	12743.00	11370.46	1577.46	0.00	0.00
21	100	90	360	12843.00	11370.46	1677.46	0.00	0.00
22	100	90	360	12943.00	11370.46	1777.46	0.00	0.00
23	100	90	360	13043.00	11370.46	1877.46	0.00	0.00
24	100	90	360	13143.00	11370.46	1977.46	0.00	0.00
25	100	90	360	13243.00	11370.46	2077.46	0.00	0.00
26	100	90	360	13343.00	11370.46	2177.46	0.00	0.00
27	100	90	360	13443.00	11370.46	2277.46	0.00	0.00
28	100	90	360	13543.00	11370.46	2377.46	0.00	0.00
29	100	90	360	13643.00	11370.46	2477.46	0.00	0.00
30	100	90	360	13743.00	11370.46	2577.46	0.00	0.00
31	100	90	360	13843.00	11370.46	2677.46	0.00	0.00
32	100	90	360	13943.00	11370.46	2777.46	0.00	0.00
33	100	90	360	14043.00	11370.46	2877.46	0.00	0.00
34	100	90	360	14143.00	11370.46	2977.46	0.00	0.00
35	100	90	360	14243.00	11370.46	3077.46	0.00	0.00
36	100	90	360	14343.00	11370.46	3177.46	0.00	0.00
37	100	90	360	14443.00	11370.46	3277.46	0.00	0.00
38	100	90	360	14543.00	11370.46	3377.46	0.00	0.00
39	100	90	360	14643.00	11370.46	3477.46	0.00	0.00
40	100	90	360	14743.00	11370.46	3577.46	0.00	0.00
41	100	90	360	14843.00	11370.46	3677.46	0.00	0.00
42	100	90	360	14943.00	11370.46	3777.46	0.00	0.00
43	100	90	360	15043.00	11370.46	3877.46	0.00	0.00
44	100	90	360	15143.00	11370.46	3977.46	0.00	0.00
45	100	90	360	15243.00	11370.46	4077.46	0.00	0.00
46	100	90	360	15343.00	11370.46	4177.46	0.00	0.00
47	100	90	360	15443.00	11370.46	4277.46	0.00	0.00
48	100	90	360	15543.00	11370.46	4377.46	0.00	0.00
49	100	90	360	15643.00	11370.46	4477.46	0.00	0.00
50	100	90	360	15743.00	11370.46	4577.46	0.00	0.00
51	42	90	360	15785.00	11370.46	4619.46	0.00	0.00
52								

LENNOX 32 # 4H



Horizontal Plane Footage +East/-West

