

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

HOBBS OCD

JAN 24 2013

RECEIVED

Energy Minerals and Natural Resources

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

☐ AMENDED REPORT

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

Operator Name and Address CAZA OPERATING, LLC 200 NORTH LORRAINE SUITE 1550 MIDLAND, TEXAS 79701		OGRID Number 249099
Property Code 39022		API Number 30025-40936
Property Name CAZA RIDGE "14" STATE		Well No. 4H

7. Surface Location

UL - Lot P	Section 14	Township 23S	Range 34E	Lot Idn	Feet from 330'	N/S Line SOUTH	Feet From 660'	E/W Line EAST	County LEA
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8. Proposed Bottom Hole Location

UL - Lot A	Section 14	Township 23S	Range 34E	Lot Idn	Feet from 330'	N/S Line NORTH	Feet From 660'	E/W Line EAST	County LEA
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9. Pool Information

Pool Name ANTELOPE RIDGE BONE SPRING-WEST	Pool Code 2209
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Additional Well Information

Work Type N	Well Type O	Cable/Rotary ROTARY	Lease Type S	Ground Level Elevation 3366'
Multiple NO	Proposed Depth MD-15,730	Formation BONE SPRING	Contractor UNKNOWN	Spud Date WHEN APPROVED
Depth to Ground water 240'		Distance from nearest fresh water well 1 mile		Distance to nearest surface water No Surface water near

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
			SEE ATTACHED SHEET			

Casing/Cement Program: Additional Comments

SEE ATTACHED SHEET

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
	5000 PSI	1500 PSI	SHAFFER OR CAMERON

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: <i>Joe T. Janica</i> Printed Name: Joe T. Janica Title: Permit Eng. E-mail Address: joejanica@valornet.com Date: 01/24/2013 Phone: 575-391-8503		OIL CONSERVATION DIVISION Approved By: <i>[Signature]</i> Title: Petroleum Engineer Approved Date: 01/25/13 Expiration Date: Conditions of Approval Attached	
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Permit Expires 2 Years From Approval Date Unless Drilling Underway

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

JAN 24 2013

AMENDED REPORT

RECEIVED
WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-40936	Pool Code 2209	Pool Name ANTELOPE RIDGE BONE SPRING-WEST
Property Code 39020	Property Name CAZA RIDGE 14 STATE	Well Number 4H
OGRID No. 249099	Operator Name CAZA OPERATING, LLC	Elevation 3366'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	14	23-S	34-E		330	SOUTH	660	EAST	LEA

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
A	14	23-S	34-E		330	NORTH	660	EAST	LEA

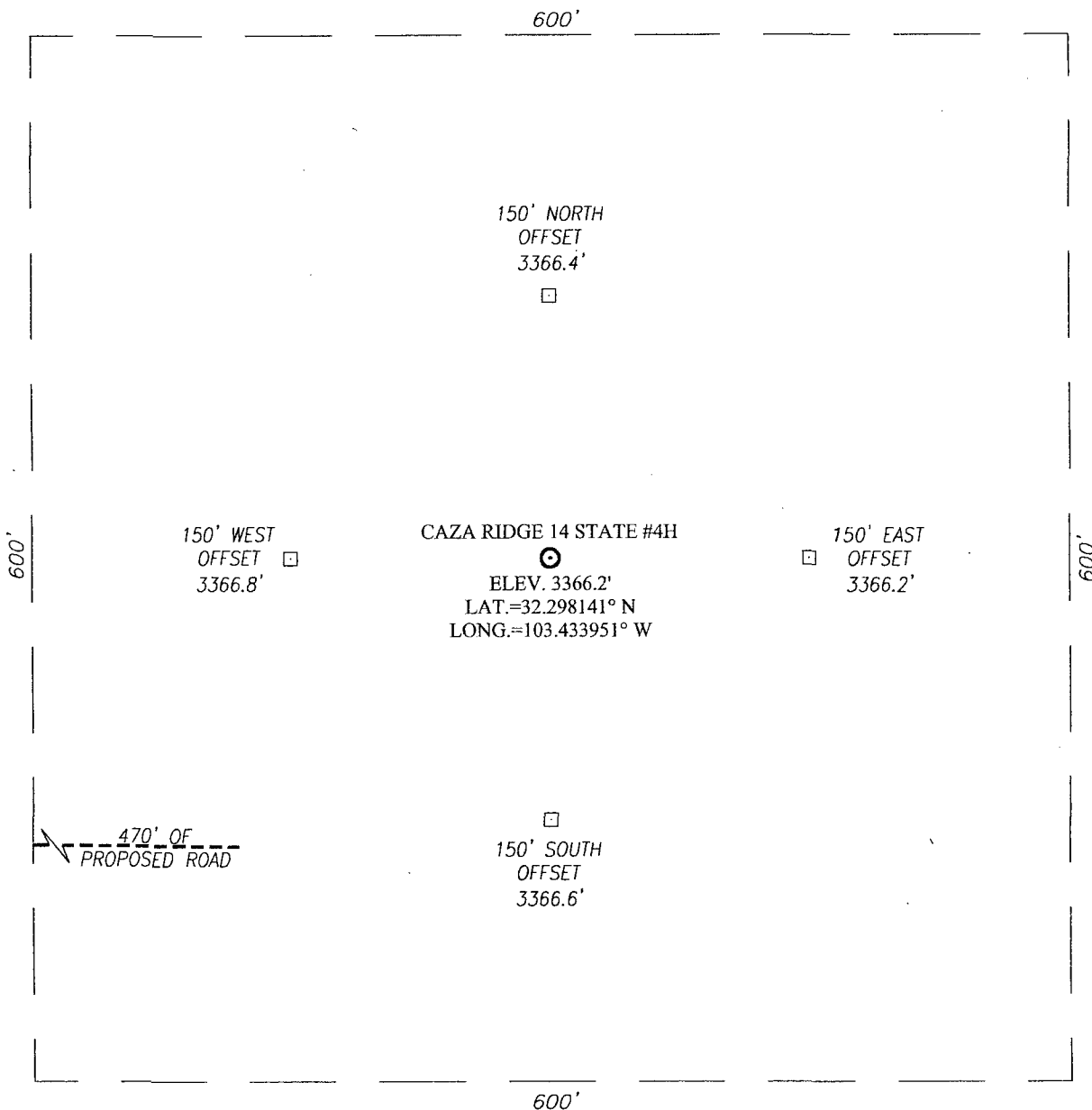
Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=473346.1 N X=777902.7 E LAT.=32.298141° N LONG.=103.433951° W BOTTOM HOLE LOCATION Y=477965.5 N X=777859.9 E	PROJECT AREA PRODUCING AREA GRID AZ.=359°28'04" HORIZ. DIST.=4620.4' B.H. S.I.	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Joe T. Janica</i> Signature Date Joe T. Janica 01/24/2013 Printed Name joejanica@valornet.com E-mail Address SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. JANUARY 15, 2013 Date of Survey Signature & Seal of Professional Surveyor: GARY G. EIDSON 12641 1/21/13 Certificate Number Gary G. Eidson 12641 Ronald F. Eidson 3239 BKL SC W.O.: 13.11.0069
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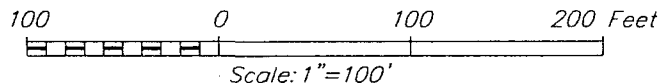
1. Drill 26" hole to 120'. Set 120' of 20" conductor pipe and cement to surface with Redi-mix.
2. Drill 17 1/2" hole to 750'. Run and set 750' of 13 3/8" 54.5# J-55 ST&C casing. Cement with 256 Sx. of Class "C" 35/65/4 POZ cement + 5% Salt, + 3% SMS, Yield 2.16, tail in with 200 Sx. of Class "C" cement + 2% CaCl, Yield 1.32, circulate cement to surface.
3. Drill 12 1/4" hole to 4950'. Run and set 4950' of 9 5/8" casing as follows: 900' of 9 5/8" 40# HCK LT&C, 4050' of 9 5/8" 40# J-55 LT&C. Cement with 956 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. Circulate cement to surface.
4. Drill 8 3/4" hole to 11,750'. Run open hole logs and Gyro. Set Kickoff cement plug from 11,500' to 10,650' with 530 Sx. of Class "H" cement + 5% Salt, Yield .95. Dress off plug to 10,835'±. Drill curve with 8 3/4" bit to end of curve 11,538'±. Run and set 11,538' of 7" 29# P-110 LT&C casing. Cement with 670 Sx. of 50/50 Class "H" POZ cement Yield 1.3, tail in with 475 Sx. of Class "H" cement estimate top of cement 4400'.
5. Drill lateral hole with 6 1/8" bit to a MD of 15,730±'. Run and set a 5030' 4 1/2" 13.5# P-110 LT&C liner. Cement with 238 Sx. of Class "H" acid soluble cement Yield 2.61 top of cement 10,700'.

SECTION 14, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY **NEW MEXICO**



DIRECTIONS TO CAZA RIDGE 14 STATE #4H

FROM THE INTERSECTION OF DELAWARE BASIN ROAD AND ADOBE ROAD GO EAST APPROX. 1.2 MILES; TURN RIGHT AND GO SOUTH APPROX. 1.9 MILES. THIS LOCATION IS APPROX. 650' EAST.



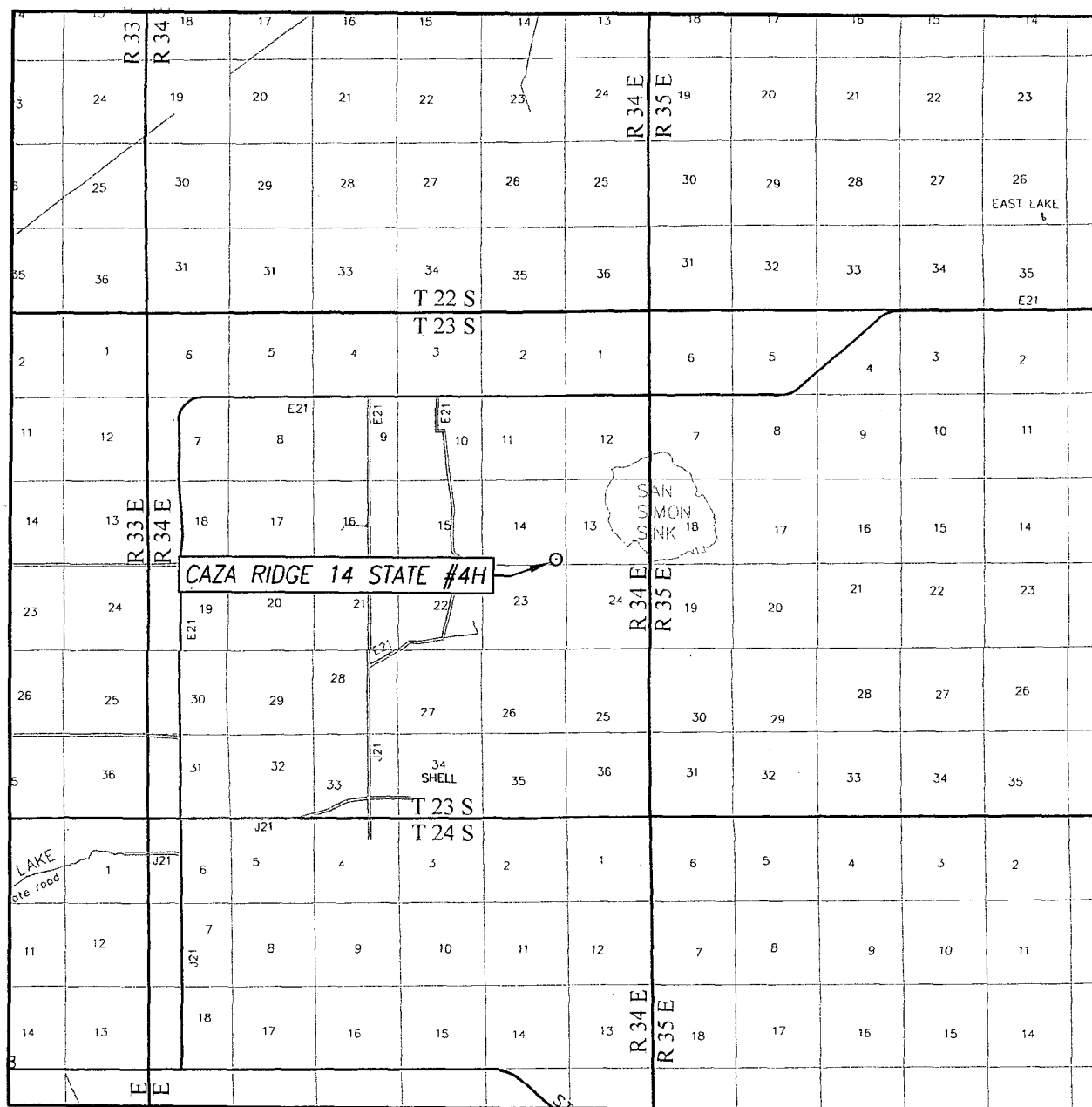
CAZA OPERATING, LLC

CAZA RIDGE 14 STATE #4H WELL
 LOCATED 330 FEET FROM THE SOUTH LINE
 AND 660 FEET FROM THE EAST LINE OF SECTION 14,
 TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M.,
 LEA COUNTY, NEW MEXICO

PROVIDING SURVEYING SERVICES
 SINCE 1946
JOHN WEST SURVEYING COMPANY
 412 N. DAL PASO
 HOBBS, N.M. 88240
 (575) 393-3117 www.jwsc.biz

Survey Date: 1/15/13	CAD Date: 1/17/13	Drawn By: BKL
W.O. No.: 13110069	Rev: .	Rel. W.O.: Sheet 1 of 1

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 14 TWP. 23-S RGE. 34-E

SURVEY N.M.P.M.

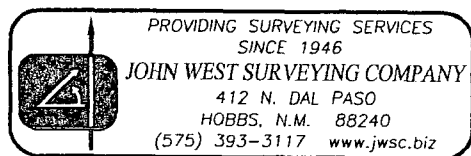
COUNTY LEA STATE NEW MEXICO

DESCRIPTION 330' FSL & 660' FEL

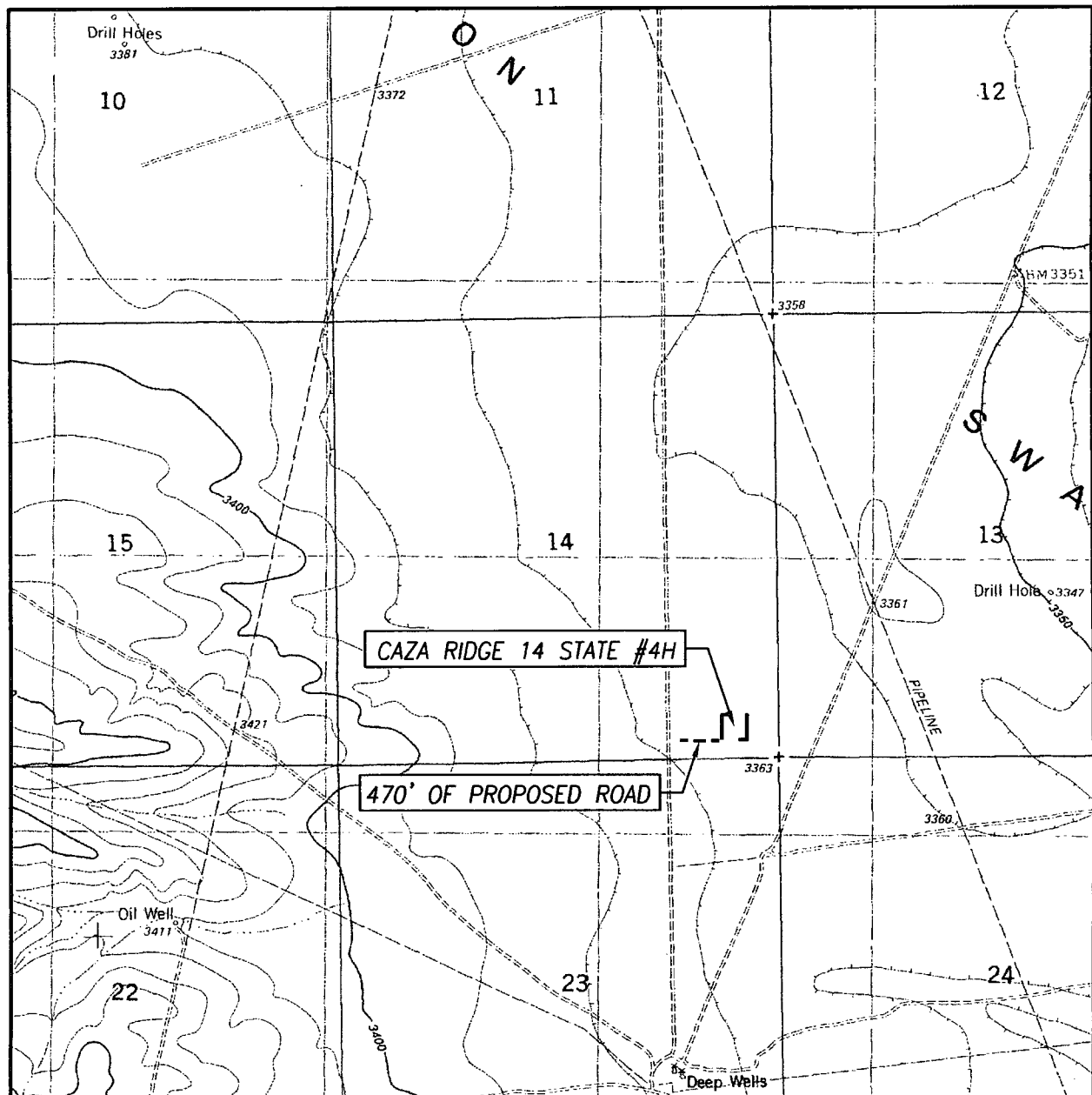
ELEVATION 3366'

OPERATOR CAZA OPERATING, LLC

LEASE CAZA RIDGE 14 STATE



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
SAN SIMON SINK, NM - 10'

SEC. 14 TWP. 23-S RGE. 34-E

SURVEY - N.M.P.M.

COUNTY LEA STATE NEW MEXICO

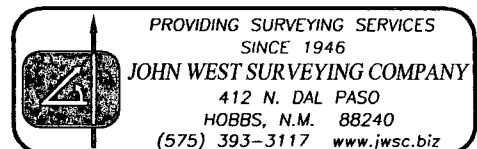
DESCRIPTION 330' FSL & 660' FEL

ELEVATION 3366'

OPERATOR CAZA OPERATING, LLC

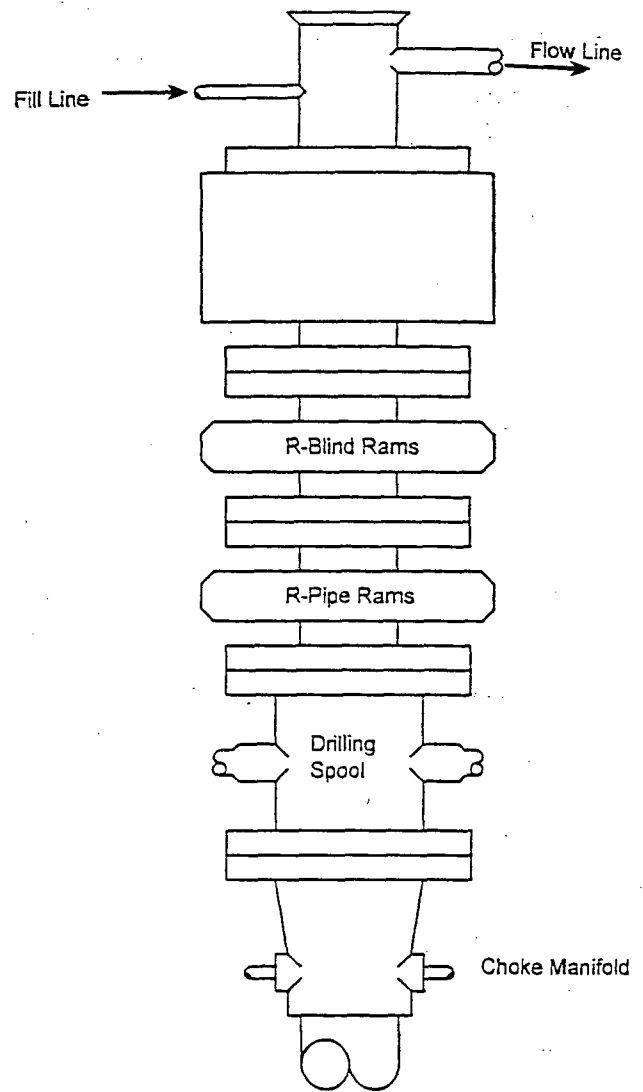
LEASE CAZA RIDGE 14 STATE

U.S.G.S. TOPOGRAPHIC MAP
SAN SIMON SINK, NM



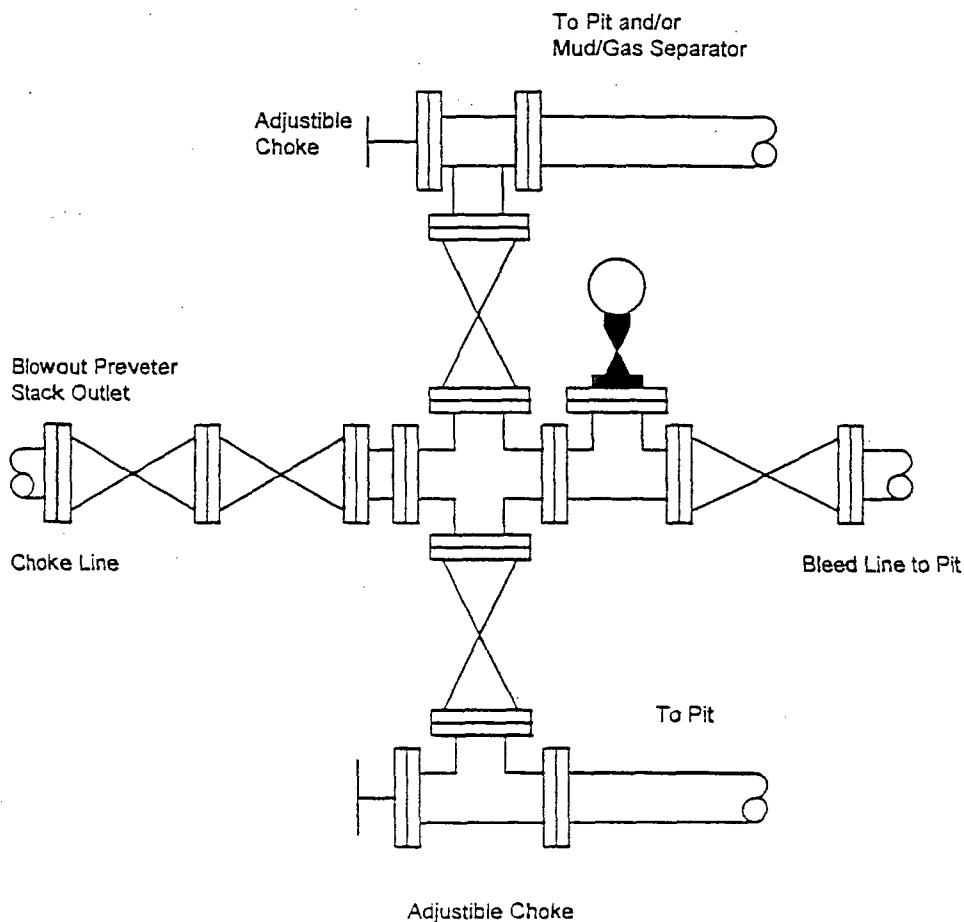
BLOWOUT PREVENTER SYSTEM

5000 PSI



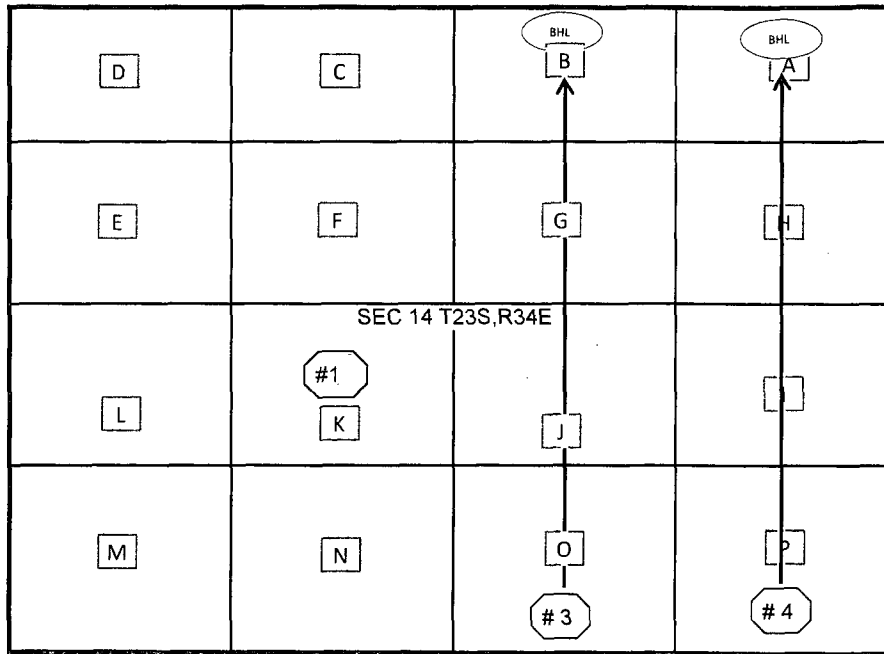
Type 1500 SERIES
5000 psi WP

Choke Manifold Assembly for 5M WP System



Caza Ridge 14 # State #4H_ Bone Springs Horizontal

Sec 14, T-23-S, R-34-E, Lea County, New Mexico



Well Name	Surface Location	Depth and Strata	Current Prod Zone	Bottom Hole Location 8350 tvd	
Caza Ridge 14 # 4H	330 FSL & 660 FEL	TD = 11,750 Wolfcamp	3rd Bone Test	330 FNL & 660 FEL	TVD 11,315.Caza Operating,LLC
Caza Ridge 14 # 3H	330 FSL & 1980 FEL	TD = 11,750 Wolfcamp	3rd Bone Test	330 FNL & 1980 FEL	Producing
Supron Fed 14 Com#1	1980 FSL & 1980 FWL	TD = 13,600 Penn	Producing 13 BCF	Same	Hunt Oil-Atoka Morrow Dual
8006 JV-P Ridge #1	1980 FSL & 1980 FEL	TD = 13,543 Penn	Plugged	Vertical	BTA Plugged

LONG's METHOD OF SURVEY COMPUTATION

OBLIQUE CIRCULAR ARC INTERPOLATION

6000	MD OF INTERPOLATION DEPTH,(feet)
#N/A	TVD COORDINATE OF THE DEPTH (feet)
#N/A	N/S COORDINATE OF DEPTH (feet)
#N/A	E/W COORDINATE OF DEPTH (feet)

3 D DISTANCE BETWEEN STATION A AND STATION B

DISTANCE TABLE

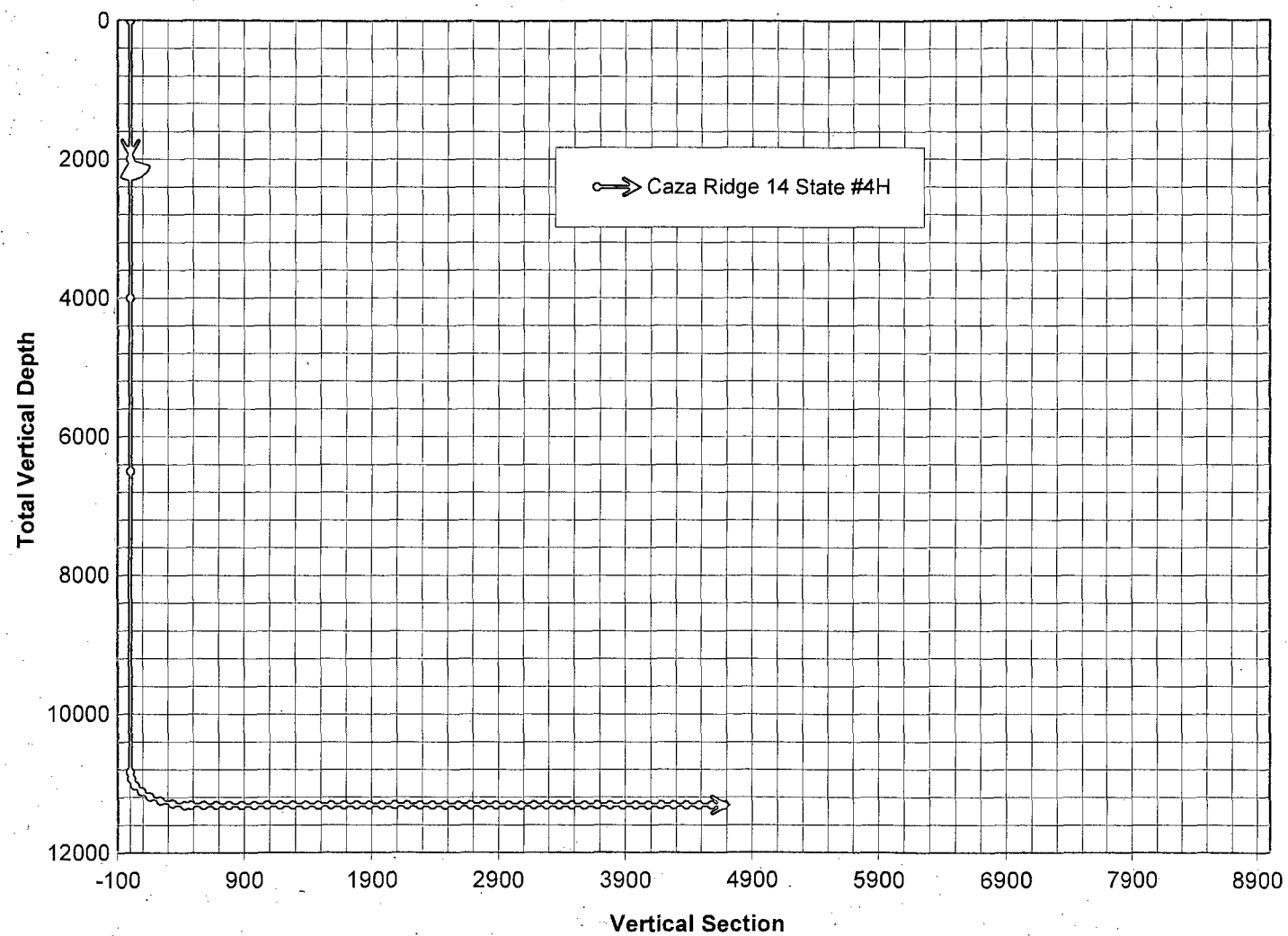
STATION A	STATION B
400.00	600.00
300.00	400.00
100.00	300.00
300.00	ft

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	10838.00	10838.00	0.00	0.00	-
2	100	12	0	10938.00	10937.27	10.43	0.00	12.00
3	100	24	0	11038.00	11032.20	41.28	0.00	12.00
4	100	36	0	11138.00	11118.65	91.19	0.00	12.00
5	100	48	0	11238.00	11192.83	157.98	0.00	12.00
6	100	60	0	11338.00	11251.50	238.73	0.00	12.00
7	100	72	0	11438.00	11292.10	329.92	0.00	12.00
8	100	84	0	11538.00	11312.85	427.56	0.00	12.00
9	50	90	0	11588.00	11315.46	477.46	0.00	12.00
10	100	90	0	11688.00	11315.46	577.46	0.00	0.00
11	100	90	0	11788.00	11315.46	677.46	0.00	0.00
12	100	90	0	11888.00	11315.46	777.46	0.00	0.00
13	100	90	0	11988.00	11315.46	877.46	0.00	0.00
14	100	90	0	12088.00	11315.46	977.46	0.00	0.00
15	100	90	0	12188.00	11315.46	1077.46	0.00	0.00
16	100	90	0	12288.00	11315.46	1177.46	0.00	0.00
17	100	90	0	12388.00	11315.46	1277.46	0.00	0.00
18	100	90	0	12488.00	11315.46	1377.46	0.00	0.00
19	100	90	0	12588.00	11315.46	1477.46	0.00	0.00
20	100	90	0	12688.00	11315.46	1577.46	0.00	0.00
21	100	90	0	12788.00	11315.46	1677.46	0.00	0.00
22	100	90	0	12888.00	11315.46	1777.46	0.00	0.00
23	100	90	0	12988.00	11315.46	1877.46	0.00	0.00
24	100	90	0	13088.00	11315.46	1977.46	0.00	0.00
25	100	90	0	13188.00	11315.46	2077.46	0.00	0.00
26	100	90	0	13288.00	11315.46	2177.46	0.00	0.00
27	100	90	0	13388.00	11315.46	2277.46	0.00	0.00
28	100	90	0	13488.00	11315.46	2377.46	0.00	0.00
29	100	90	0	13588.00	11315.46	2477.46	0.00	0.00
30	100	90	0	13688.00	11315.46	2577.46	0.00	0.00
31	100	90	0	13788.00	11315.46	2677.46	0.00	0.00
32	100	90	0	13888.00	11315.46	2777.46	0.00	0.00
33	100	90	0	13988.00	11315.46	2877.46	0.00	0.00
34	100	90	0	14088.00	11315.46	2977.46	0.00	0.00
35	100	90	0	14188.00	11315.46	3077.46	0.00	0.00
36	100	90	0	14288.00	11315.46	3177.46	0.00	0.00
37	100	90	0	14388.00	11315.46	3277.46	0.00	0.00
38	100	90	0	14488.00	11315.46	3377.46	0.00	0.00
39	100	90	0	14588.00	11315.46	3477.46	0.00	0.00
40	100	90	0	14688.00	11315.46	3577.46	0.00	0.00
41	100	90	0	14788.00	11315.46	3677.46	0.00	0.00
42	100	90	0	14888.00	11315.46	3777.46	0.00	0.00
43	100	90	0	14988.00	11315.46	3877.46	0.00	0.00
44	100	90	0	15088.00	11315.46	3977.46	0.00	0.00
45	100	90	0	15188.00	11315.46	4077.46	0.00	0.00
46	100	90	0	15288.00	11315.46	4177.46	0.00	0.00
47	100	90	0	15388.00	11315.46	4277.46	0.00	0.00
48	100	90	0	15488.00	11315.46	4377.46	0.00	0.00
49	100	90	0	15588.00	11315.46	4477.46	0.00	0.00
50	100	90	0	15688.00	11315.46	4577.46	0.00	0.00
51	42	90	0	15730.00	11315.46	4619.46	0.00	0.00

Caza Ridge 14 State # 4H



Horizontal Plane Footage +East/-West

