

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
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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-41888	Pool Code 28435	Pool Name GRAMMA RIDGE-BONE SPRING NORTHEAST
Property Code 40096	Property Name GRAMMA 27 STATE	Well Number 2H
OGRID No. 249099	Operator Name CAZA OPERATING, LLC.	Elevation 3688'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	27	21-S	34-E		330	NORTH	500	EAST	LEA

Bottom Hole Location If Different From Surface

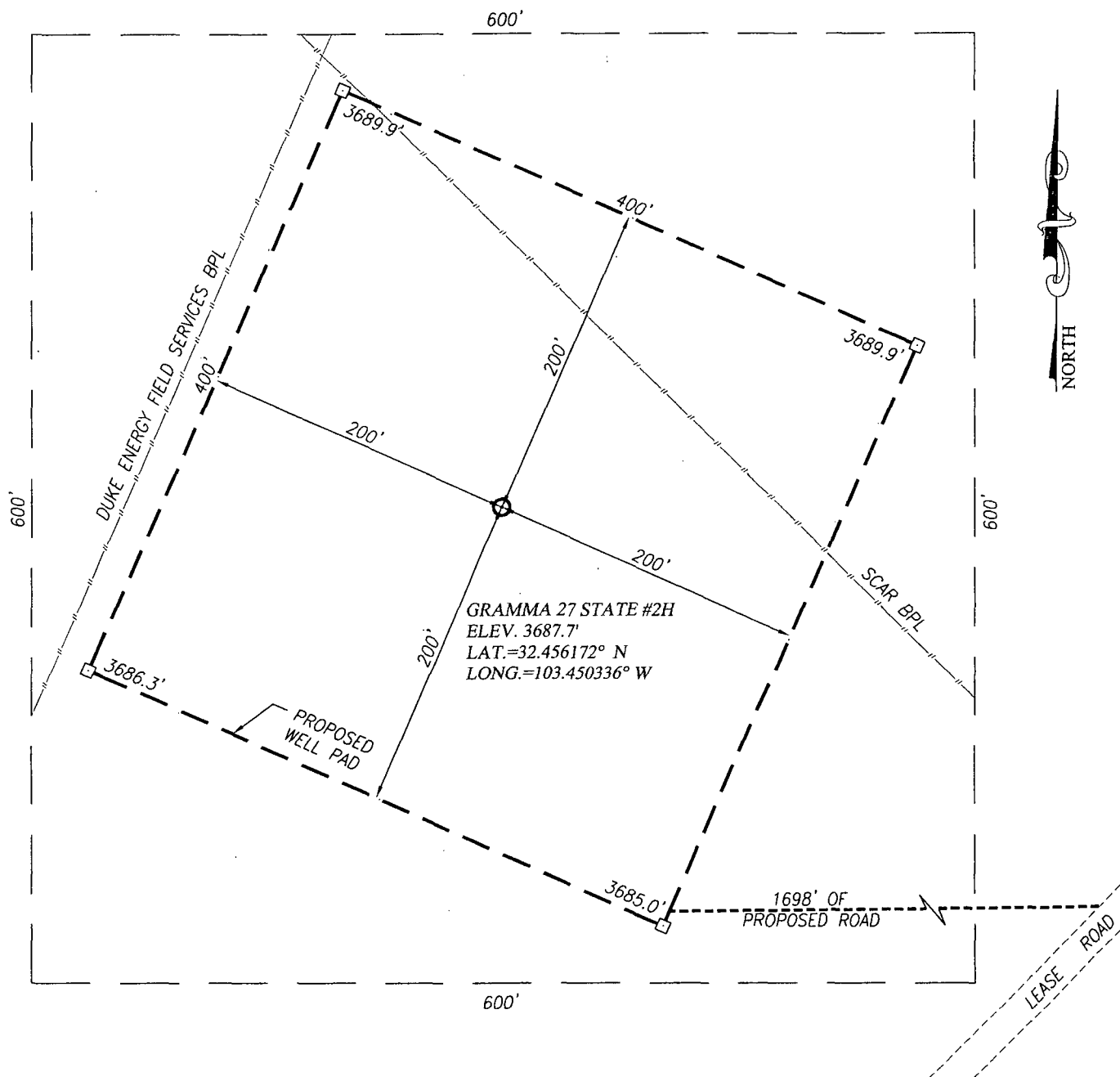
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	27	21-S	34-E		330	SOUTH	330	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

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

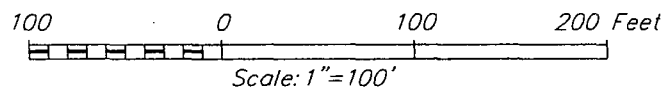
CORNER COORDINATES TABLE A - Y=531116.6 N, X=771540.6 E B - Y=531130.1 N, X=772862.4 E C - Y=525847.5 N, X=772908.3 E D - Y=525834.9 N, X=771587.6 E GRID AZ.=177°23'42" HORIZ. DIST.=4626.6' GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=530795.1 N X=772365.4 E LAT.=32.456172° N LONG.=103.450336° W BOTTOM HOLE LOCATION Y=526174.2 N X=772575.5 E		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. Signature: <i>Joe T. Janica</i> Date: 06/03/14 Printed Name: Joe T. Janica E-mail Address: joejanica@valormet.com 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. MAY 21, 2014 Date of Survey: MAY 21, 2014 Signature & Seal of Professional Surveyor: <i>Ronald J. Eidson</i> Certificate Number: 3239 ACK REL. W.O. 13110872 JWSC W.O. 14110496
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JUN 04 2014



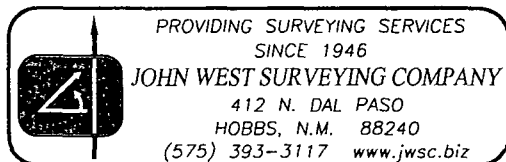
DIRECTIONS TO GRAMMA 27 STATE #2H:

FROM ST. HWY. 176 AND CO. RD. C-32 & SAN SIMON, GO WEST ON ST. HWY. 176 APPROX. 0.25 MILES; TURN LEFT AT CO. RD. E-30 AND GO SOUTH APPROX. 2.6 MILES TO A PROPOSED ROAD SURVEY. FOLLOW THE STAKED ROAD WEST 1698 FEET TO THE SOUTHEAST CORNER OF THE LOCATION.



CAZA OPERATING, LLC.

GRAMMA 27 STATE #2H WELL
LOCATED 330 FEET FROM THE NORTH LINE
AND 500 FEET FROM THE EAST LINE OF SECTION 27,
TOWNSHIP 21 SOUTH, RANGE 34 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO



Survey Date: 5/21/14

CAD Date: 6/3/14

Drawn By: ACK

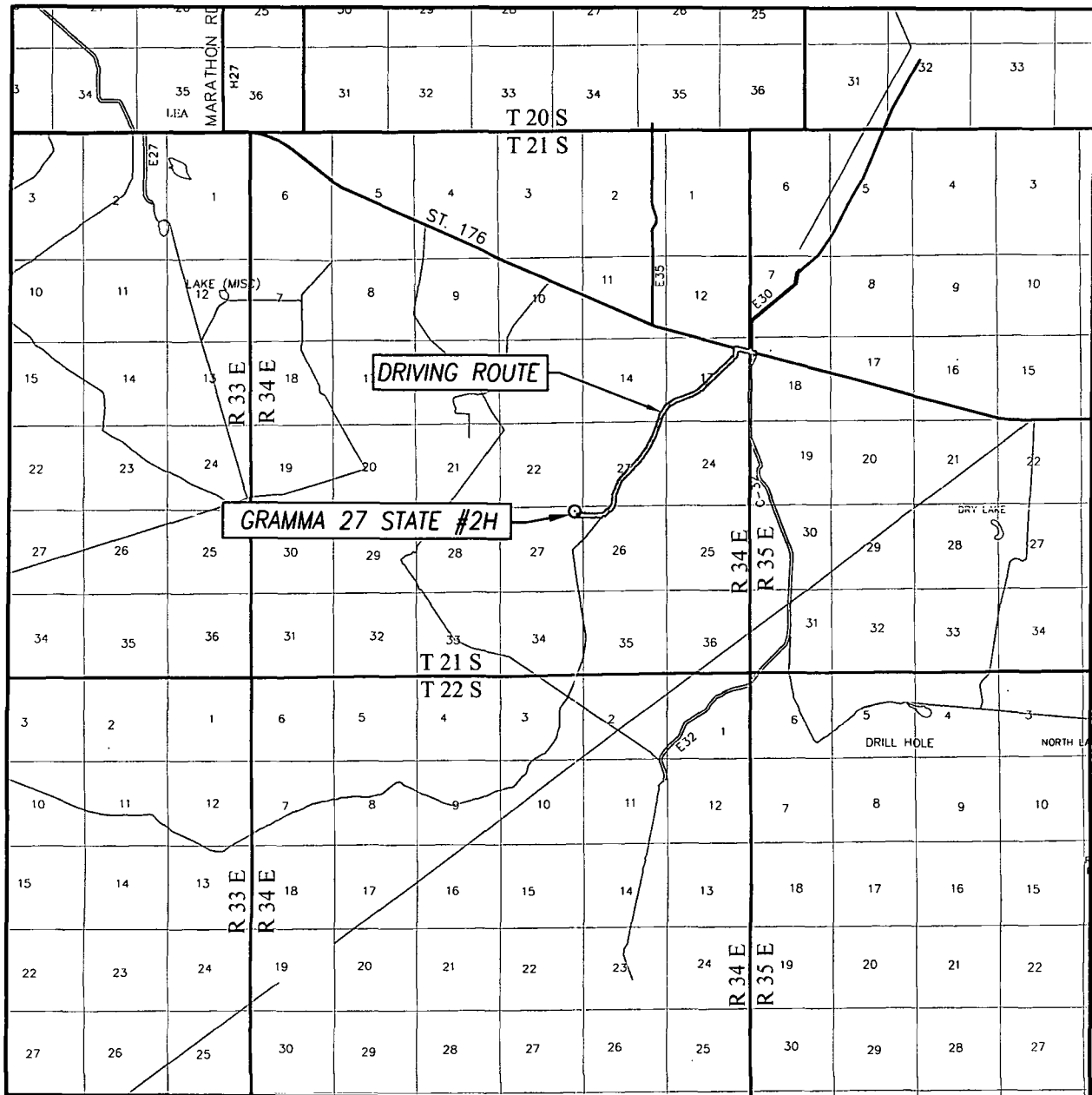
W.O. No.: 14110496

Rev. :

Rel. W.O.:13110872

Sheet 1 of 1

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 27 TWP. 21-S RGE. 34-E

SURVEY N.M.P.M.

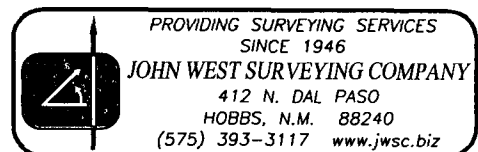
COUNTY LEA STATE NEW MEXICO

DESCRIPTION 330' FNL & 500' FEL

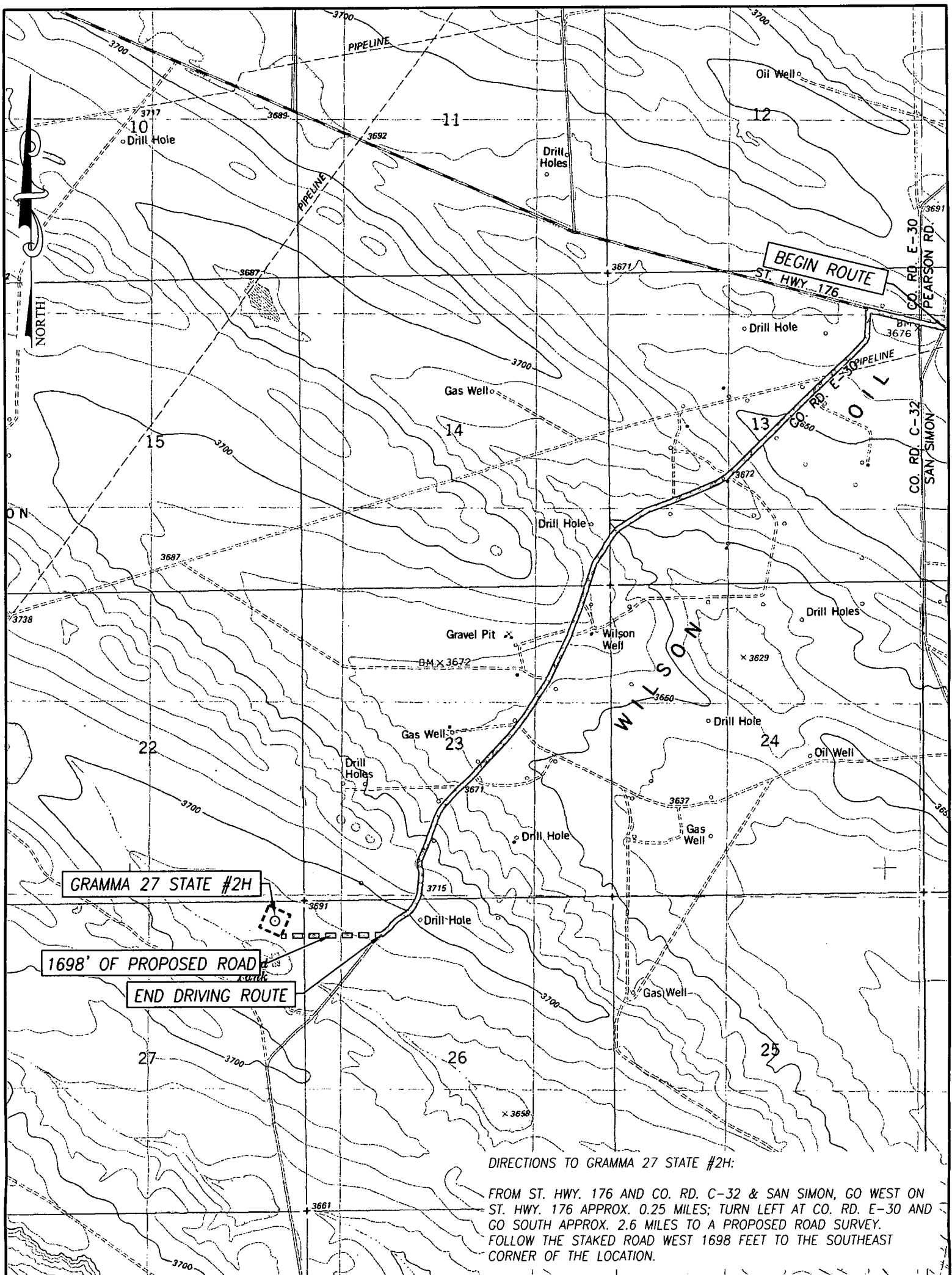
ELEVATION 3688'

OPERATOR CAZA OPERATING, LLC.

LEASE GRAMMA 27 STATE



LOCATION VERIFICATION MAP



SEC. 27 TWP. 21-S RGE. 34-E
 SURVEY N.M.P.M.
 COUNTY LEA STATE NEW MEXICO
 DESCRIPTION 330' FNL & 500' FEL
 ELEVATION 3688'
 OPERATOR CAZA OPERATING, LLC.
 LEASE GRAMMA 27 STATE
 U.S.G.S. TOPOGRAPHIC MAP
 SANSIMON RANCH, NM.

SCALE: 1" = 2000'

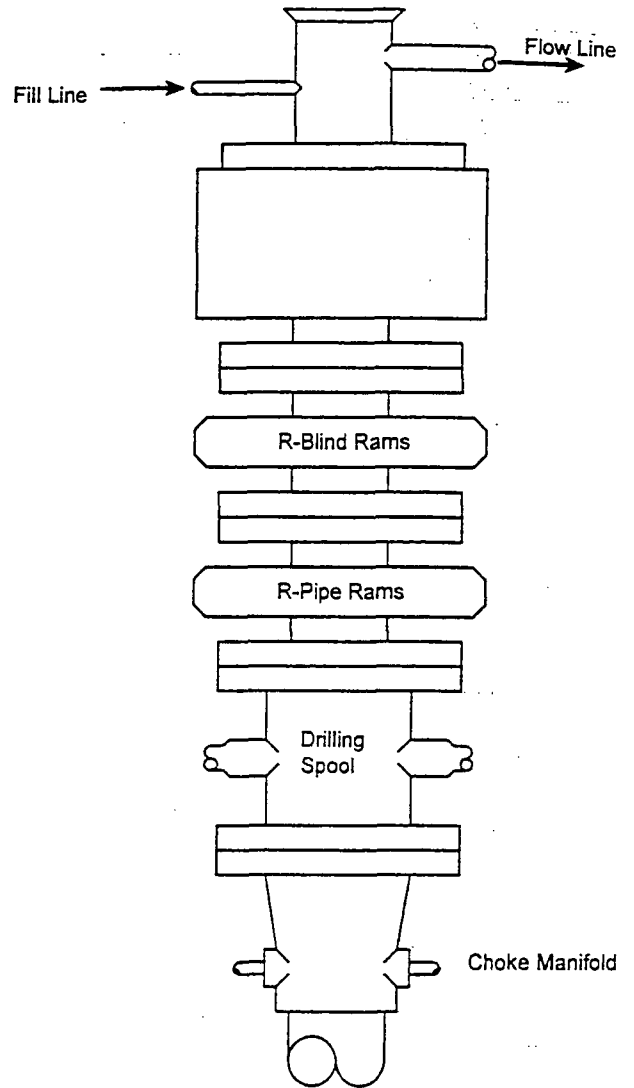
CONTOUR INTERVAL:
 SANSIMON RANCH, NM. - 10'



PROVIDING SURVEYING SERVICES
 SINCE 1946
JOHN WEST SURVEYING COMPANY
 412 N. DAL PASO HOBBS, N.M. 88240
 (575) 393-3117 www.jwsc.biz
 TBPLS# 10021000

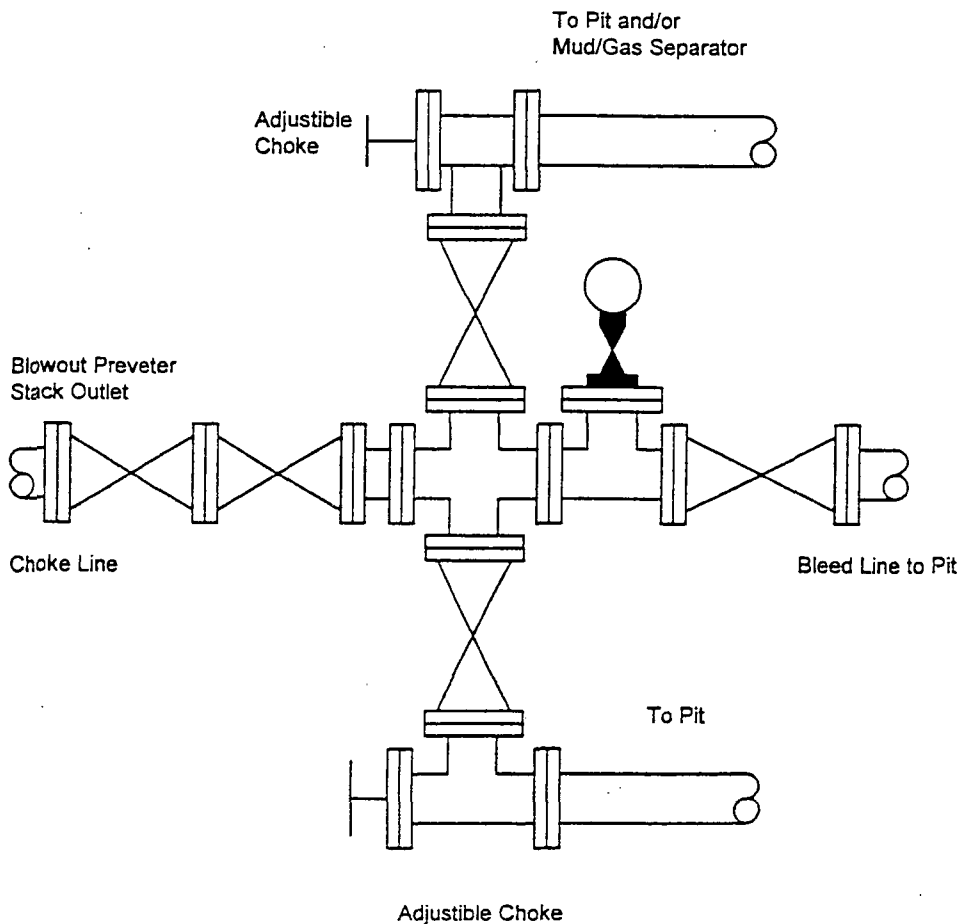
BLOWOUT PREVENTER SYSTEM

5000 PSI



Type 1500 SERIES
5000 psi WP

Choke Manifold Assembly for 5M WP System



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	EW 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

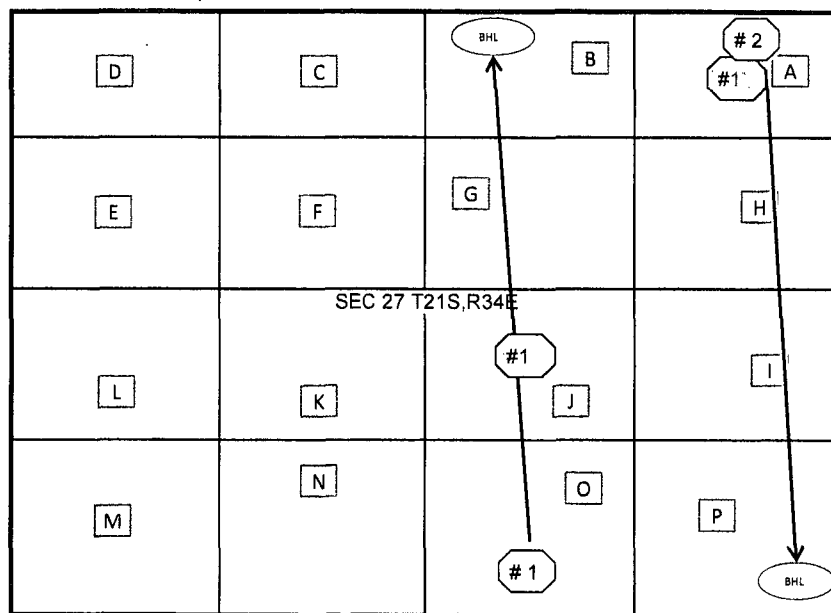
TABLE OF SURVEY STATIONS

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	177.9	10722.00	10722.00	0.00	0.00	-
2	100	12	177.9	10822.00	10821.27	-10.43	0.38	12.00
3	100	24	177.9	10922.00	10916.20	-41.25	1.51	12.00
4	100	36	177.9	11022.00	11002.65	-91.13	3.34	12.00
5	100	48	177.9	11122.00	11076.83	-157.87	5.79	12.00
6	100	60	177.9	11222.00	11135.50	-238.57	8.75	12.00
7	100	72	177.9	11322.00	11176.10	-329.70	12.09	12.00
8	100	84	177.9	11422.00	11196.85	-427.27	15.67	12.00
9	50	90	177.9	11472.00	11199.46	-477.14	17.50	12.00
10	100	90	177.9	11572.00	11199.46	-577.08	21.16	0.00
11	100	90	177.9	11672.00	11199.46	-677.01	24.82	0.00
12	100	90	177.9	11772.00	11199.46	-776.94	28.49	0.00
13	100	90	177.9	11872.00	11199.46	-876.88	32.15	0.00
14	100	90	177.9	11972.00	11199.46	-976.81	35.82	0.00
15	100	90	177.9	12072.00	11199.46	-1076.74	39.48	0.00
16	100	90	177.9	12172.00	11199.46	-1176.67	43.15	0.00
17	100	90	177.9	12272.00	11199.46	-1276.61	46.81	0.00
18	100	90	177.9	12372.00	11199.46	-1376.54	50.48	0.00
19	100	90	177.9	12472.00	11199.46	-1476.47	54.14	0.00
20	100	90	177.9	12572.00	11199.46	-1576.41	57.80	0.00
21	100	90	177.9	12672.00	11199.46	-1676.34	61.47	0.00
22	100	90	177.9	12772.00	11199.46	-1776.27	65.13	0.00
23	100	90	177.9	12872.00	11199.46	-1876.20	68.80	0.00
24	100	90	177.9	12972.00	11199.46	-1976.14	72.46	0.00
25	100	90	177.9	13072.00	11199.46	-2076.07	76.13	0.00
26	100	90	177.9	13172.00	11199.46	-2176.00	79.79	0.00
27	100	90	177.9	13272.00	11199.46	-2275.94	83.45	0.00
28	100	90	177.9	13372.00	11199.46	-2375.87	87.12	0.00
29	100	90	177.9	13472.00	11199.46	-2475.80	90.78	0.00
30	100	90	177.9	13572.00	11199.46	-2575.73	94.45	0.00
31	100	90	177.9	13672.00	11199.46	-2675.67	98.11	0.00
32	100	90	177.9	13772.00	11199.46	-2775.60	101.78	0.00
33	100	90	177.9	13872.00	11199.46	-2875.53	105.44	0.00
34	100	90	177.9	13972.00	11199.46	-2975.47	109.11	0.00
35	100	90	177.9	14072.00	11199.46	-3075.40	112.77	0.00
36	100	90	177.9	14172.00	11199.46	-3175.33	116.43	0.00
37	100	90	177.9	14272.00	11199.46	-3275.26	120.10	0.00
38	100	90	177.9	14372.00	11199.46	-3375.20	123.76	0.00
39	100	90	177.9	14472.00	11199.46	-3475.13	127.43	0.00
40	100	90	177.9	14572.00	11199.46	-3575.06	131.09	0.00
41	100	90	177.9	14672.00	11199.46	-3675.00	134.76	0.00
42	100	90	177.9	14772.00	11199.46	-3774.93	138.42	0.00
43	100	90	177.9	14872.00	11199.46	-3874.86	142.08	0.00
44	100	90	177.9	14972.00	11199.46	-3974.79	145.75	0.00
45	100	90	177.9	15072.00	11199.46	-4074.73	149.41	0.00
46	100	90	177.9	15172.00	11199.46	-4174.66	153.08	0.00
47	100	90	177.9	15272.00	11199.46	-4274.59	156.74	0.00
48	100	90	177.9	15372.00	11199.46	-4374.52	160.41	0.00
49	100	90	177.9	15472.00	11199.46	-4474.46	164.07	0.00
50	100	90	177.9	15572.00	11199.46	-4574.39	167.74	0.00
51	45	90	177.9	15617.00	11199.46	-4619.36	169.38	0.00

Gamma 27 State # 2H_ Bone Springs Horizontal

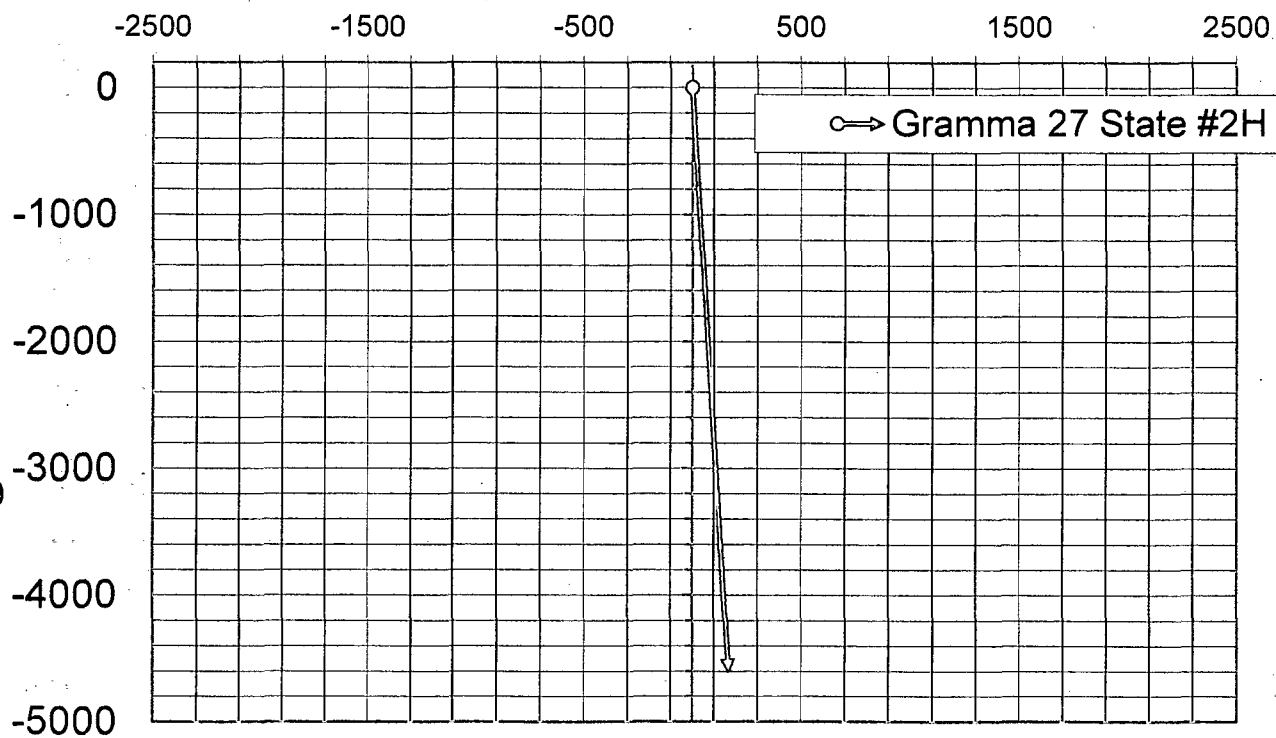
Sec 27, T-21-S, R-34-E, Lea County, New Mexico



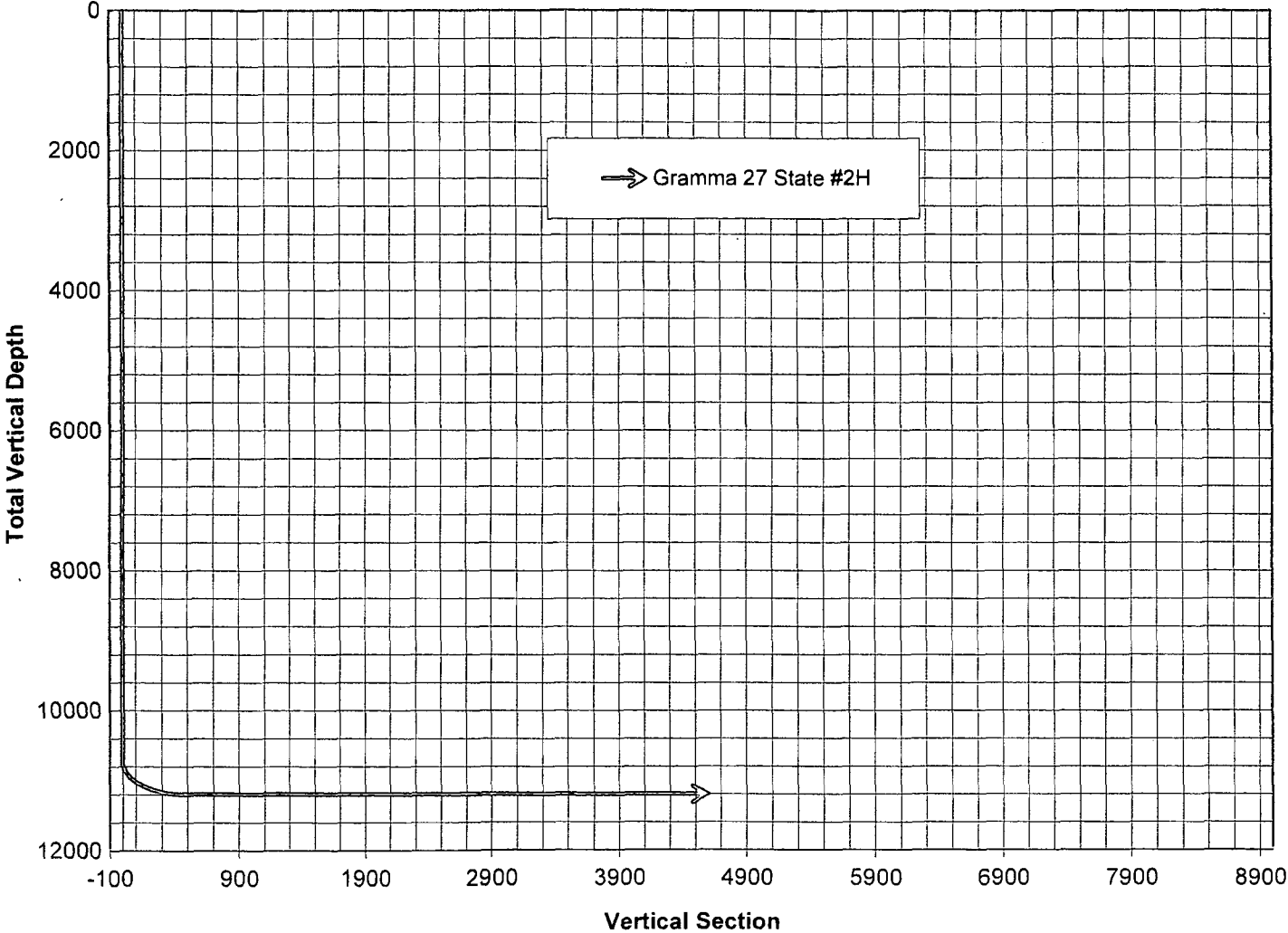
Well Name	Surface Location	Depth and Strata	Current Prod Zone	Bottom Hole Location	
Gamma 27 State # 2H	330 FNL & 500 FEL	TD = 11,200 3rd Bone	3rd Bone Test	330 FNL & 660 FEL	Caza Proposed 3rd Bone Springs
Gamma 27 State #1H	330 FSL & 1980 FEL	TD = 11,200 3rd Bone	3rd Bone Producing	350 FNL & 2290 FEL	Caza Drilled.
State B 9611 # 1	660 FNL & 660 FEL	TD = 4100' Yates	Plugged	Vertical	Wilson Oil Co
State B 9511 # 1	1980 FSL & 1980 FEL	TD = 3676' Yates	Plugged	Vertical	Wilson Oil Co
GRW # 1	1980 FNL & 1650 FEL	TD = 13,400 Morrow	Plugged	Vertical	POGO Production Co
Gamma "B" 8817 JVP-1	660 FSL & 1980 FWL	TD = 13,306 Morrow	Plugged	Vertical	BTA Producers
Gamma "B" 8817 JVP-2	1980 FSL & 860 FEL	TD = 13,280 Mrw. Del Tst. 8284-8320. plugged 1994	Plugged	Vertical	BTA Producers.
GRN 27 State Com # 1	1330 FNL & 1650 FEL	Proposed TD = 13400 Morrow	Permitted NOT DRILL	Vertical	Devon Energy. Not Drilled

Horizontal Plane Footage +East/-West

Footage + North/- South



Gamma 27 State # 2H





Gramma 27 State # 2H

**NE/NE, Sec 27, T21S, R34E,
Closed Loop Drilling System**

Operations and Maintenance Plan

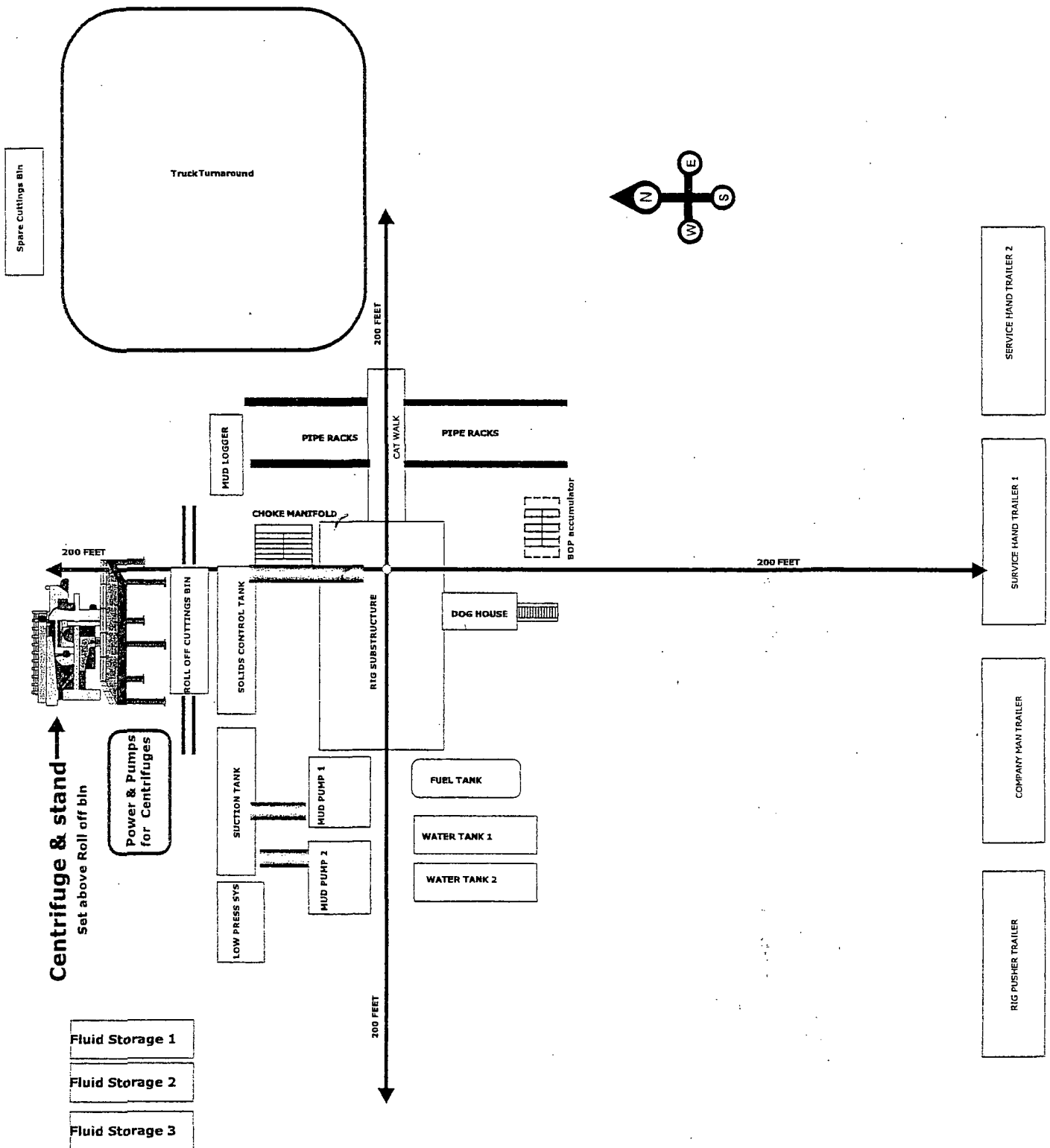
Closed Loop equipment will be inspected and monitored closely on a daily basis by each drilling rig Tour and by those hired specifically to operate the equipment. Any leak or release detected will be repaired immediately and the proper NMOCD official will be notified within the 48 hr requirement. A large release will require Caza Operating, LLC representatives to contact OCD immediately at the Hobbs @ 575 393 6161 as stated by NMOCD rule 116.

Closure Plan

During and after drilling operations, liquids (which apply), all drill cuttings and drilling fluids will be hauled and disposed of at the R-360 disposal (permit number NM 01-0006) located about 30 miles East of Carlsbad, New Mexico. An alternate approved disposal site has been selected Parabo disposal "Sundance " which is 4 miles East of Eunice (permit number NM 01-0003). The Second site would be used in the event of economics or physical problems with R-360 disposal.

CLOSED LOOP OIL WELL

GRAMMA 27 STATE # 2H



Note: The Rig and Closed System Company for this well have not been selected thus the set up shown is simply generic.