

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

RECEIVED

MAY 20 2009

HOBSOCD

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-101
June 16, 2008

Submit to appropriate District Office

☐ AMENDED REPORT

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 Code 37696		API Number 30- 025-39404
Property Name MOORE COWBELL "27" STATE		Well No. # 1
Proposed Pool 1 CAPROCK WOLFCAMP-EAST (9310)		Proposed Pool 2

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	27	12S	32E		660	SOUTH	990	EAST	LEA

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
A	27	12S	32E		330	NORTH	660	EAST	LEA

Additional Well Information

Work Type Code N	Well Type Code O	Cable/Rotary ROTARY	Lense Type Code S	Ground Level Elevation 4335'
Multiple NO	Proposed Depth MD-12750	Formation WOLFCAMP	Contractor	Spud Date WHEN APPROVED

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
26"	20"	Conductor	40'	Redi-mix	Surface
17 1/2"	13 3/8"	54.5#	1400'	1600 Sx.	Surface
12 1/4"	9 5/8"	36#	3800'	1250 Sx.	Surface
8 3/4"	7"	26#	8900'	1180 Sx.	Est TOC 3500'
6 1/8"	4 1/2"	11.6#	12,750'*		

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.

* 4650' of 4 1/2" liner Hang liner at 8100'±

Permit Expires 2 Years From Approval
Date Unless Drilling Underway

SEE ATTACHED SHEET FOR DETAIL

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

Signature:

Joe T. Janica

Printed name:

Joe T. Janica

Title:

Permit Eng.

E-mail Address:

joejanica@valornet.com

Date:

05/20/09

Phone:

575-391-8503

OIL CONSERVATION DIVISION

Approved by:

[Signature]

Title:

PETROLEUM ENGINEER

Approval Date:

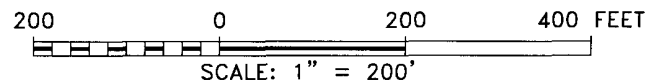
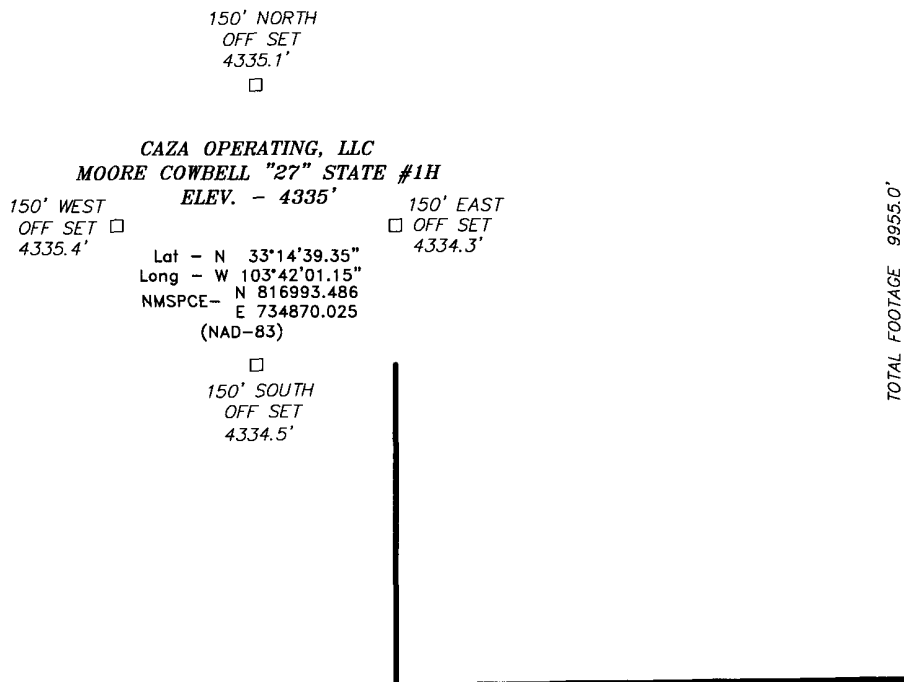
Expiration Date:

MAY 21 2009

Conditions of Approval Attached ☐

1. Drill 26" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
2. Drill 17½" hole to 1400'. Run and set 1400' of 13 3/8" 54.5# J-55 ST&C casing. Cement with 1400 Sx. of 35/65 Class "C" POZ cement + 5% Salt, + 6% Gel Yield 1.89, tail in with 200 Sx. of Class "C" cement + 2% CaCl, yield 1.32, circulate cement to surface.
3. Drill 12¼" hole to 3800'. Run and set 3800' of 9 5/8" casing as follows: 800' of 9 5/8" 40# J-55 ST&C, 3000' of 9 5/8" 36# J-55 LT&C casing. Cement with 1050 Sx. 35/65 Class "C" POZ + 6% Gel, + 5% Salt, 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 9800'. Run open hole logs, plug hole back to 8000'. Dress off plug to KOP at 8170±'. Drill curve with 8 3/4" bit to a measured depth of 8925±', to the top of the Wolfcamp. Run and set 8925' of 7" 26# P-110 LT&C & BT&C. Cement with 880 Sx. of TXI Class "H" Light Cement + additives, Yield 1.25, tail in with 300 Sx. of TXI Class "H" cement Yield 1.18. Estimate top of cement 3500' from surface.
5. Drill 6 1/8" hole to a measured depth of 12,750±'. Run 4650' 4½" 11.6# P-110 LT&C liner with a Swell Packer-Sleeve and a Versa Flex liner hanger assembly set hanger at 8100±'

SECTION 27, TOWNSHIP 12 SOUTH, RANGE 32 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



Directions to Location:

FROM THE JUNCTION OF HWY 62-180 AND GROSE RD (159), GO SOUTH 8.5 MILES TO MOORE RD, ON MOORE GO EAST 1.2 MILES TO LEASE ROAD, ON LEASE ROAD GO SOUTH 0.6 MILES TO PROPOSED LEASE ROAD.

CAZA OPERATING, LLC

REF: MOORE COWBELL "27" STATE #1H / WELL PAD TOPO

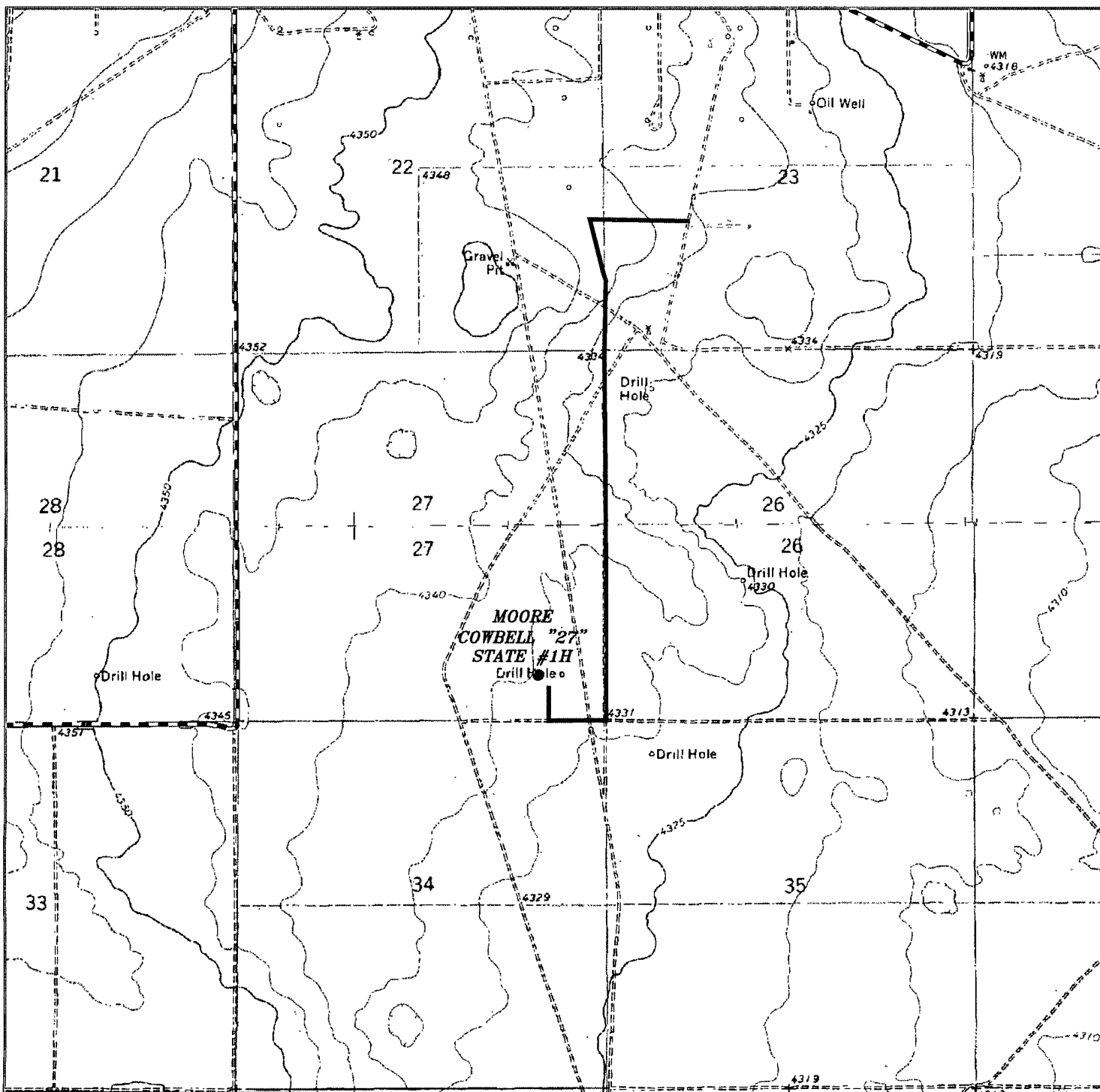
THE MOORE COWBELL "27" STATE #1H LOCATED 660'
FROM THE SOUTH LINE AND 990' FROM THE EAST LINE OF
SECTION 27, TOWNSHIP 12 SOUTH, RANGE 32 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO.

BASIN SURVEYS P.O. BOX 1786 -HOBBS, NEW MEXICO

W.O. Number: 21365 Drawn By: J. SMALL

Date: 05-18-2009 Disk: JMS 21365

Survey Date: 05-13-2009 Sheet 1 of 1 Sheets



MOORE COWBELL "27" STATE #1H
 Located 660' FSL and 990' FEL
 Section 27, Township 12 South, Range 32 East,
 N.M.P.M., Lea County, New Mexico.

basin
surveys
 focused on excellence
 in the oilfield

P.O. Box 1786
 1120 N. West County Rd.
 Hobbs, New Mexico 88241
 (575) 393-7316 - Office
 (575) 392-2206 - Fax
 basin-surveys.com

W.O. Number: JMS 21365

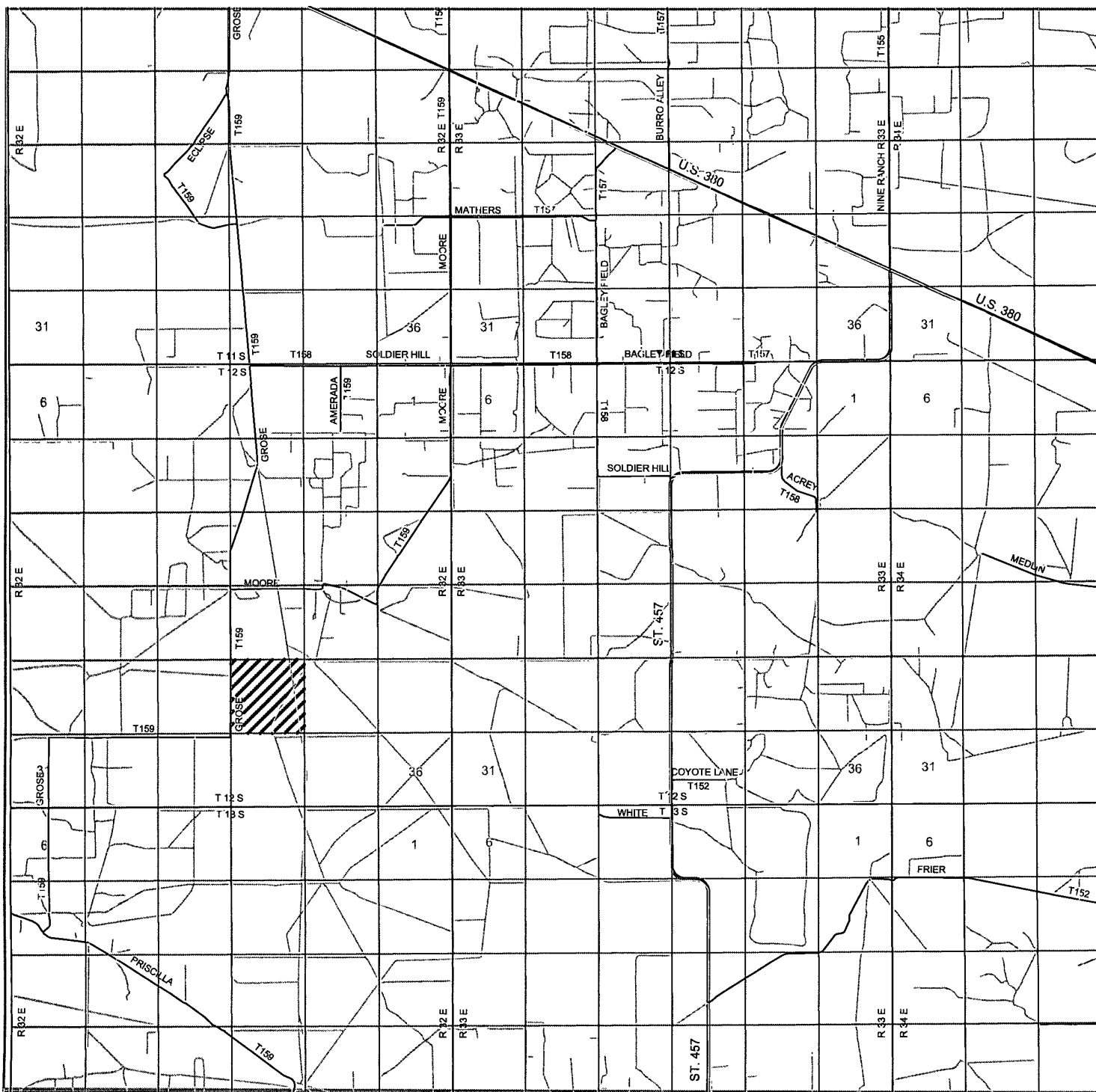
Survey Date: 02-26-2009

Scale: 1" = 2000'

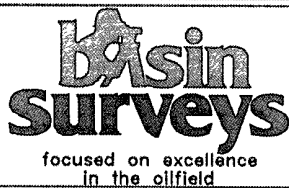
Date: 02-27-2008



CAZA
OPERATING,
LLC



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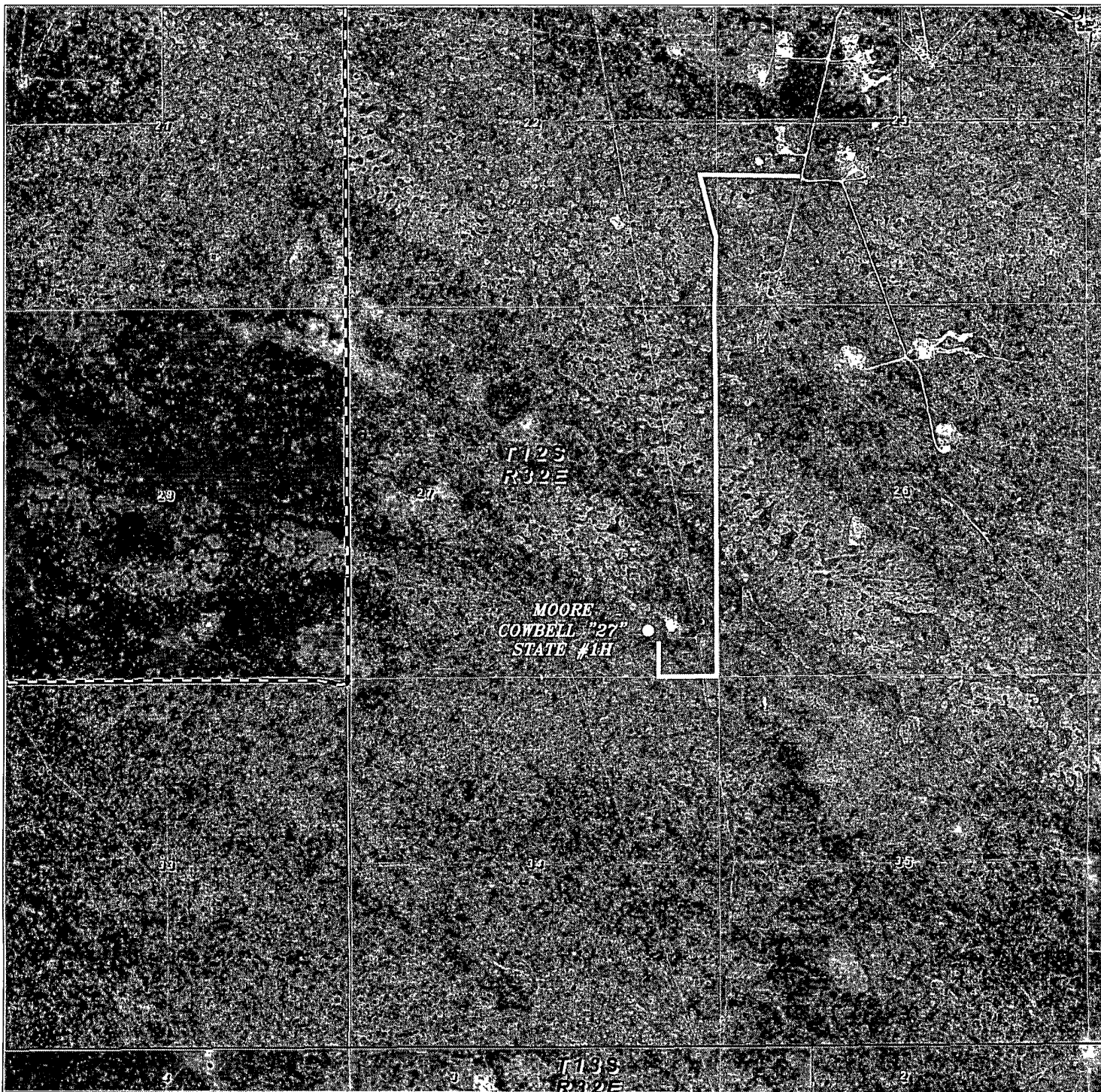
W.O. Number: JMS 21365

Survey Date: 02-26-2009

Scale: 1" = 2 Miles

Date: 02-27-2008

CAZA
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W.O. Number: JMS 20981

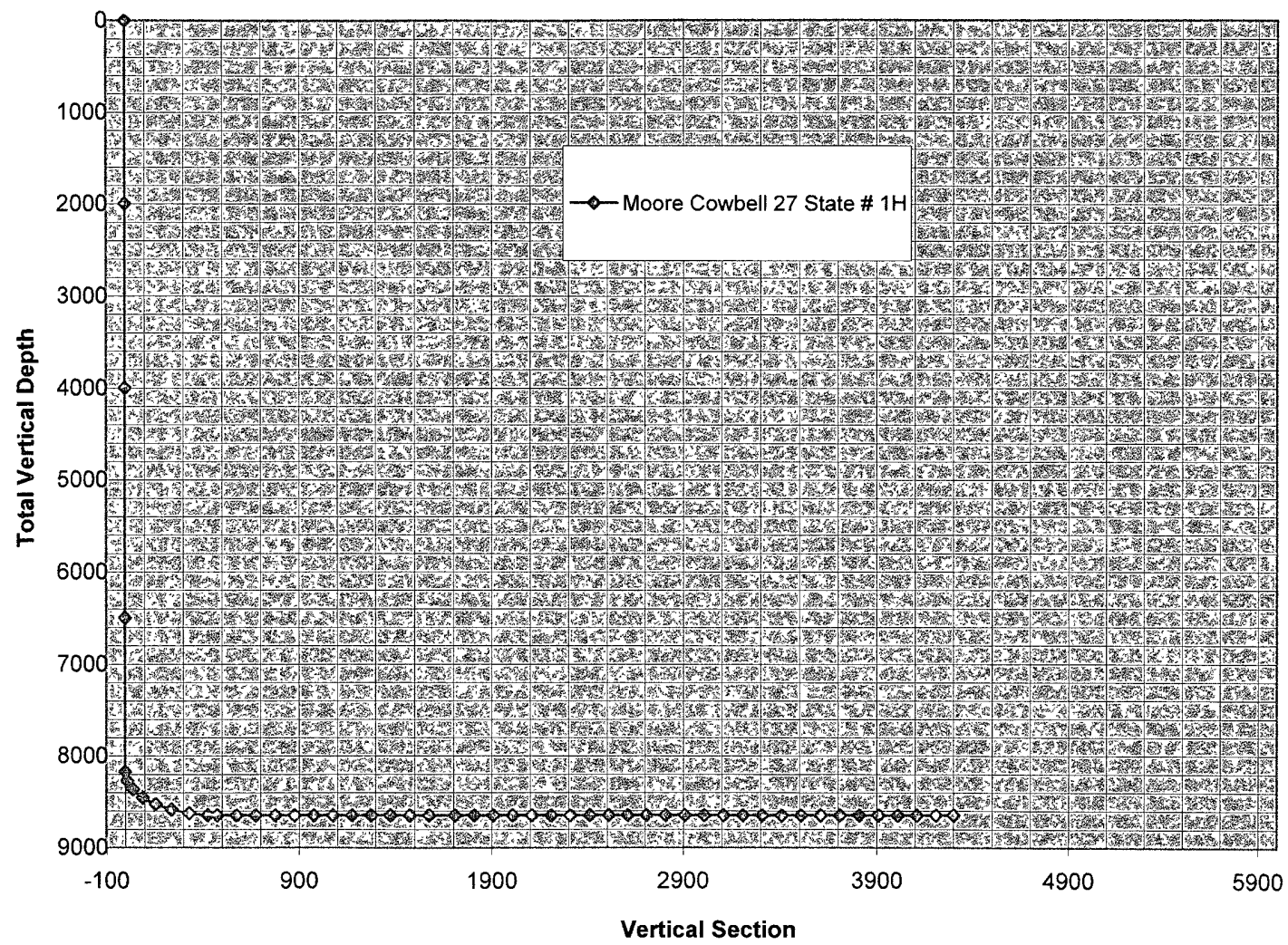
Scale: 1" = 2000'

YELLOW TINT - USA LAND
 BLUE TINT - STATE LAND
 NATURAL COLOR - FEE LAND

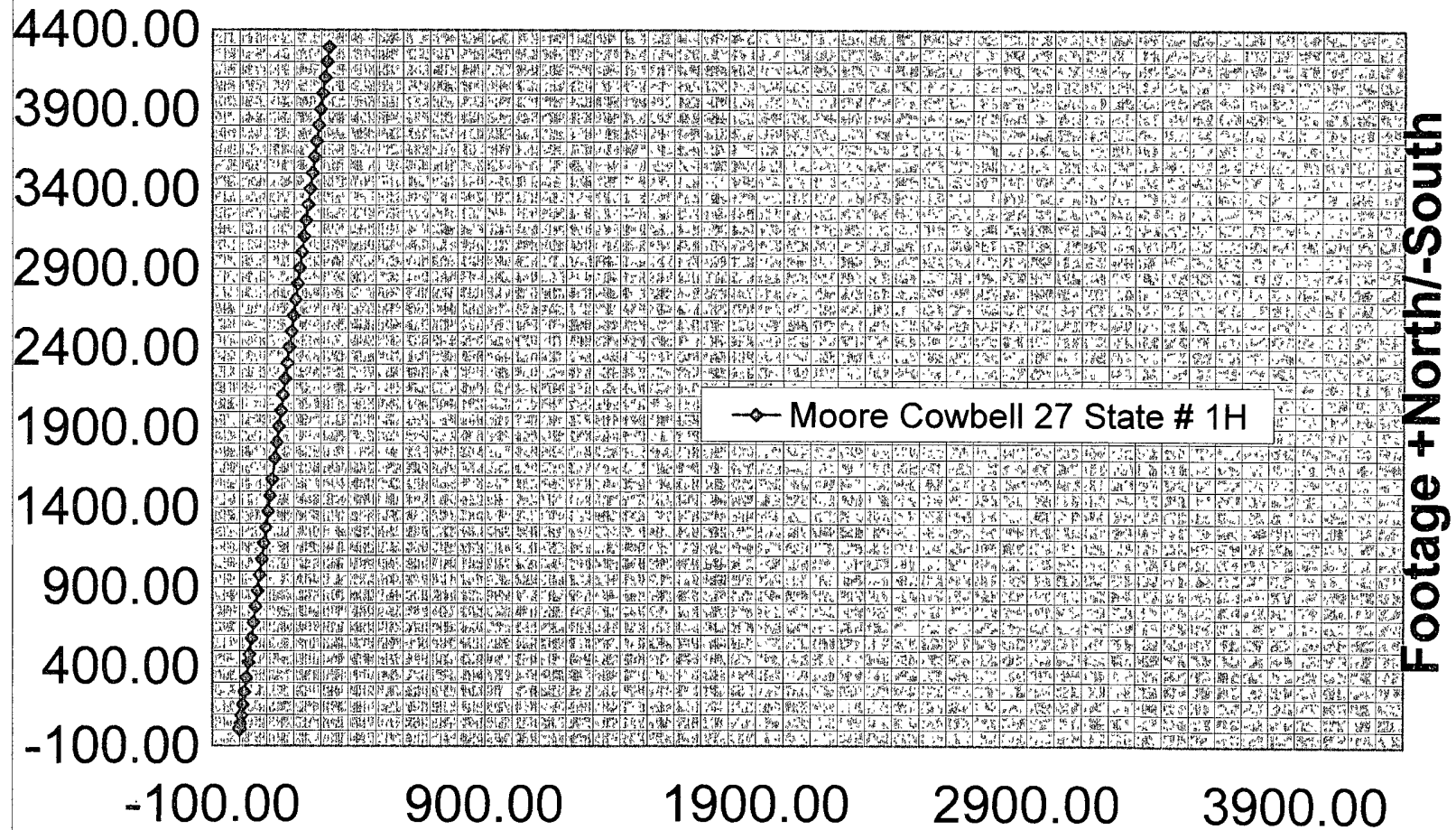


CAZA
 OPERATING,
 LLC

Moore Cowbell 27 State # 1H

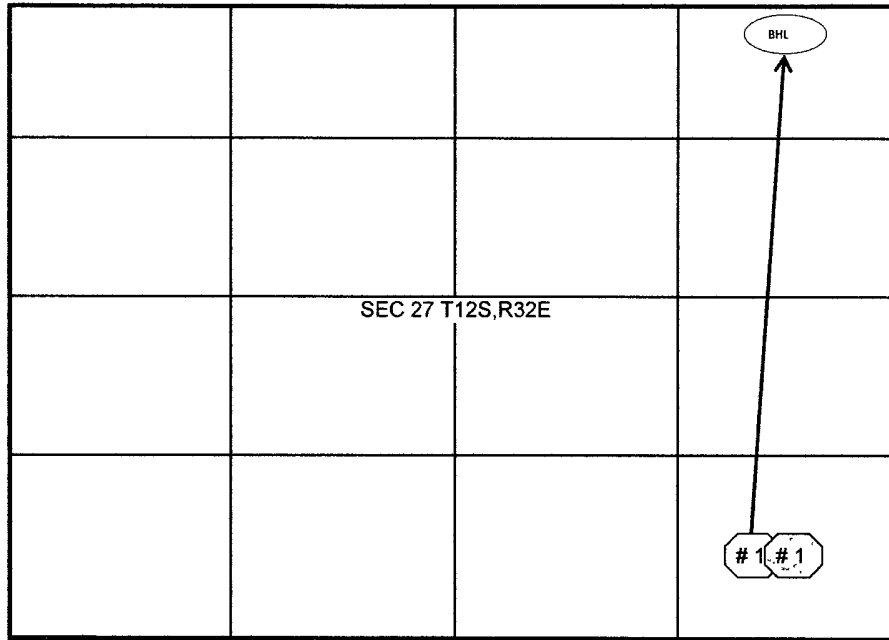


Horizontal Plane Footage -West/+East



Moore Cap Prospect Wolfcamp Horizontal

Sec 27, T-12-S, R-32-E, Lea County, New Mexico



Well Name	Surface Location	Depth and Strata	Current Prod Zone	Bottom Hole Location 8350 tvd	
Moore Cowbell 27 St # 1H	660 FSL & 990 FEL	TD = 8500 Wolfcamp Horiz	Proposed	330 FNL & 660 FEL	Caza Operating Proposal
HOPE State # 1	660 FSL & 660 FEL	TD = 10,972 Penn	D&A Attempt Re-entry	Same	Monsanto- Wagner Brwn Re Entry

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	8173.00	8173.00	0.00	0.00	-
2	100	12	4.398705	8273.00	8272.27	10.40	0.80	12.00
3	100	24	4.398705	8373.00	8367.20	41.16	3.17	12.00
4	100	36	4.398705	8473.00	8453.65	90.92	6.99	12.00
5	100	48	4.398705	8573.00	8527.83	157.51	12.12	12.00
6	100	60	4.398705	8673.00	8586.50	238.03	18.31	12.00
7	100	72	4.398705	8773.00	8627.10	328.95	25.30	12.00
8	100	84	4.398705	8873.00	8647.85	426.30	32.79	12.00
9	50	90	4.398705	8923.00	8650.46	476.06	36.62	12.00
10	100	90	4.398705	9023.00	8650.46	575.76	44.29	0.00
11	100	90	4.398705	9123.00	8650.46	675.47	51.96	0.00
12	100	90	4.398705	9223.00	8650.46	775.17	59.63	0.00
13	100	90	4.398705	9323.00	8650.46	874.88	67.30	0.00
14	100	90	4.398705	9423.00	8650.46	974.59	74.97	0.00
15	100	90	4.398705	9523.00	8650.46	1074.29	82.64	0.00
16	100	90	4.398705	9623.00	8650.46	1174.00	90.31	0.00
17	100	90	4.398705	9723.00	8650.46	1273.70	97.98	0.00
18	100	90	4.398705	9823.00	8650.46	1373.41	105.65	0.00
19	100	90	4.398705	9923.00	8650.46	1473.11	113.32	0.00
20	100	90	4.398705	10023.00	8650.46	1572.82	120.99	0.00
21	133	90	4.398705	10156.00	8650.46	1705.43	131.19	0.00
22	100	90	4.398705	10256.00	8650.46	1805.13	138.86	0.00
23	100	90	4.398705	10356.00	8650.46	1904.84	146.53	0.00
24	100	90	4.398705	10456.00	8650.46	2004.54	154.20	0.00
25	100	90	4.398705	10556.00	8650.46	2104.25	161.87	0.00
26	100	90	4.398705	10656.00	8650.46	2203.95	169.53	0.00
27	100	90	4.398705	10756.00	8650.46	2303.66	177.20	0.00
28	100	90	4.398705	10856.00	8650.46	2403.36	184.87	0.00
29	100	90	4.398705	10956.00	8650.46	2503.07	192.54	0.00
30	100	90	4.398705	11056.00	8650.46	2602.78	200.21	0.00
31	100	90	4.398705	11156.00	8650.46	2702.48	207.88	0.00
32	100	90	4.398705	11256.00	8650.46	2802.19	215.55	0.00
33	100	90	4.398705	11356.00	8650.46	2901.89	223.22	0.00
34	100	90	4.398705	11456.00	8650.46	3001.60	230.89	0.00
35	100	90	4.398705	11556.00	8650.46	3101.30	238.56	0.00
36	100	90	4.398705	11656.00	8650.46	3201.01	246.23	0.00
37	100	90	4.398705	11756.00	8650.46	3300.71	253.90	0.00
38	100	90	4.398705	11856.00	8650.46	3400.42	261.57	0.00
39	100	90	4.398705	11956.00	8650.46	3500.12	269.24	0.00
40	100	90	4.398705	12056.00	8650.46	3599.83	276.91	0.00
41	100	90	4.398705	12156.00	8650.46	3699.54	284.58	0.00
42	100	90	4.398705	12256.00	8650.46	3799.24	292.25	0.00
43	100	90	4.398705	12356.00	8650.46	3898.95	299.92	0.00
44	100	90	4.398705	12456.00	8650.46	3998.65	307.59	0.00
45	100	90	4.398705	12556.00	8650.46	4098.36	315.26	0.00
46	100	90	4.398705	12656.00	8650.46	4198.06	322.93	0.00
47	92	90	4.398705	12748.00	8650.46	4289.79	329.98	0.00

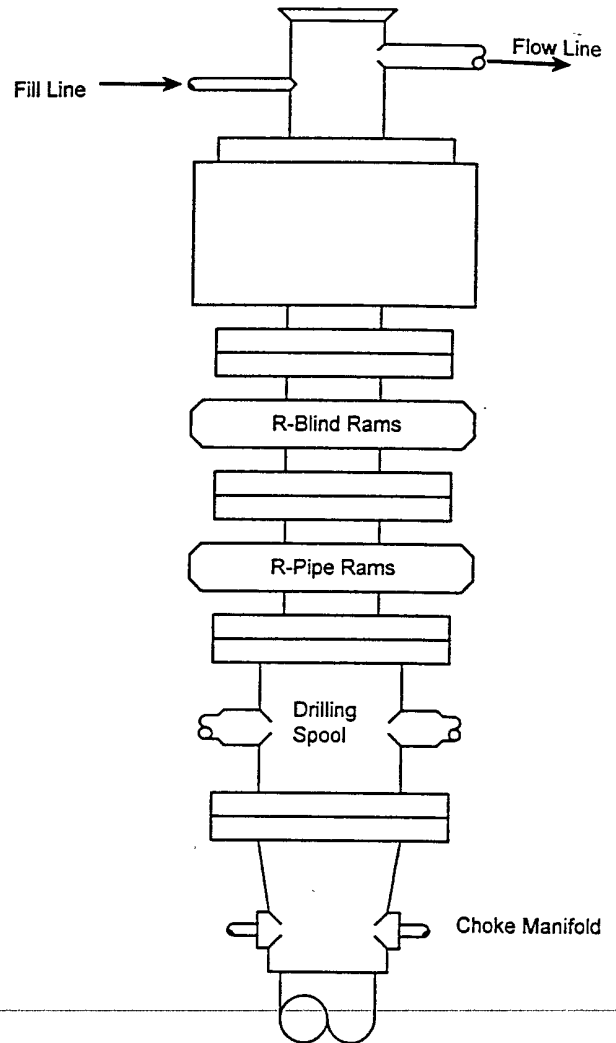
Moore Cowbell 27 State # 1H

TVD	N/S	E/W		
0	0.00	0.00	0	0
2000	0.00	0.00	0	0
4000	0.00	0.00	0	0
6500	0.00	0.00	0	0
8173.00	0.00	0.00	0	0
8272.27	10.40	0.80	108.8632	10.43375
8367.20	41.16	3.17	1703.956	41.279
8453.65	90.92	6.99	8315.191	91.18767
8527.83	157.51	12.12	24957.21	157.9785
8586.50	238.03	18.31	56993.17	238.7324
8627.10	328.95	25.30	108847.3	329.9201
8647.85	426.30	32.79	182804.3	427.5562
8650.46	476.06	36.62	227972.7	477.4648
8650.46	575.76	44.29	333465.6	577.4648
8650.46	675.47	51.96	458958.6	677.4648
8650.46	775.17	59.63	604451.6	777.4648
8650.46	874.88	67.30	769944.5	877.4648
8650.46	974.59	74.97	955437.5	977.4648
8650.46	1074.29	82.64	1160930	1077.465
8650.46	1174.00	90.31	1386423	1177.465
8650.46	1273.70	97.98	1631916	1277.465
8650.46	1373.41	105.65	1897409	1377.465
8650.46	1473.11	113.32	2182902	1477.465
8650.46	1572.82	120.99	2488395	1577.465
8650.46	1705.43	131.19	2925690	1710.465
8650.46	1805.13	138.86	3277783	1810.465
8650.46	1904.84	146.53	3649876	1910.465
8650.46	2004.54	154.20	4041969	2010.465
8650.46	2104.25	161.87	4454062	2110.465
8650.46	2203.95	169.53	4886155	2210.465
8650.46	2303.66	177.20	5338248	2310.465
8650.46	2403.36	184.87	5810341	2410.465
8650.46	2503.07	192.54	6302434	2510.465
8650.46	2602.78	200.21	6814527	2610.465
8650.46	2702.48	207.88	7346620	2710.465
8650.46	2802.19	215.55	7898713	2810.465
8650.46	2901.89	223.22	8470806	2910.465
8650.46	3001.60	230.89	9062898	3010.465
8650.46	3101.30	238.56	9674991	3110.465
8650.46	3201.01	246.23	10307084	3210.465
8650.46	3300.71	253.90	10959177	3310.465
8650.46	3400.42	261.57	11631270	3410.465
8650.46	3500.12	269.24	12323363	3510.465
8650.46	3599.83	276.91	13035456	3610.465
8650.46	3699.54	284.58	13767549	3710.465
8650.46	3799.24	292.25	14519642	3810.465

[illegible]

BLOWOUT PREVENTER SYSTEM

5000 PSI



Type 1500 SERIES
5000 psi WP

Choke Manifold Assembly for 5M WP System

