36726

30-015-~~37420~~ S

OCT 16 2008

OCD-ARTESIA

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
DISTRICT IV
1220 S St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30 015 36726	97575	Pavo Mesa; ABO

Property Code	Property Name	Well Number
37420	GRUY HENSHAW "32" STATE COM	1H

OGRID No.	Operator Name	Elevation
260972	GRUY PETROLEUM MANAGEMENT CO., LLC	3648'

Surface Location

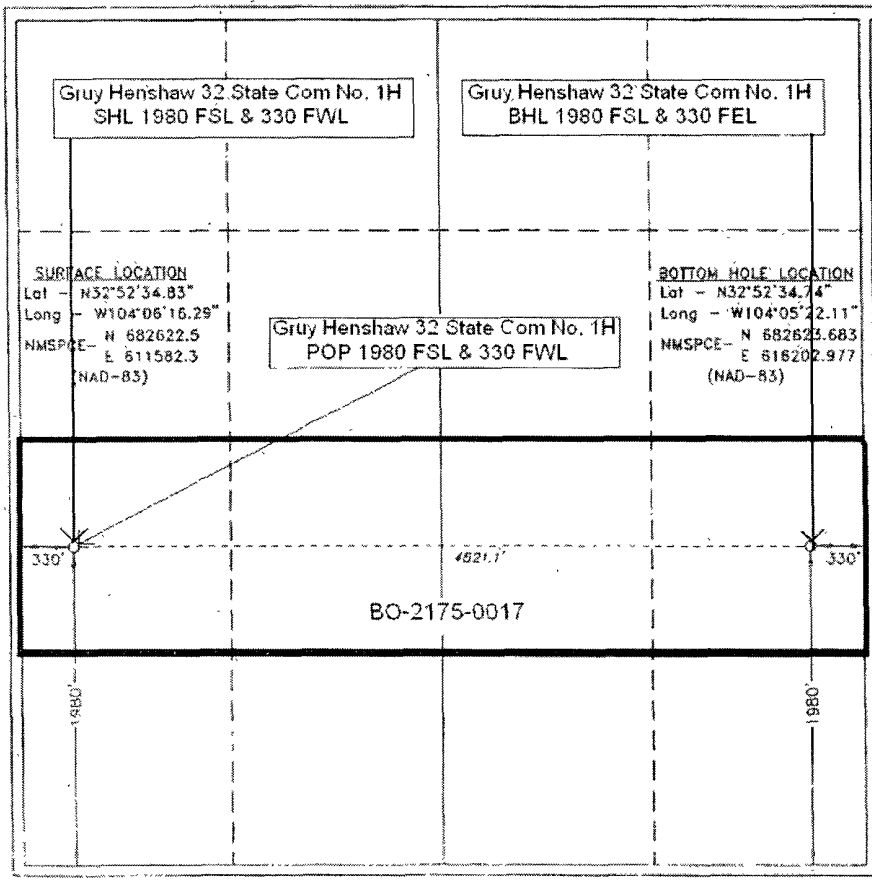
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	32	16 S	29 E		1980	SOUTH	330	WEST	EDDY

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
I	32	16 S	29 E		1980	SOUTH	330	EAST	EDDY

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



OPERATOR CERTIFICATION

I hereby certify that the information contained 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 pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Linda Smith 9-26-08
Signature Date

Linda Smith
Printed Name

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.

SEPTEMBER 5, 2008
Date Surveyed
Signature & Seal of Professional Surveyor

Certificate No. Gary L. James 7977

BASIN SURVEYS

JRD

Drilling Plan, Casing, Cementing, BOP and Mud Details

Gruy Petroleum Management Co., LLC
Gruy Henshaw 32 State Com 1H
Unit Letter L Section 32
T- 16S R- 29E
Eddy County New Mexico

1 Proposed Drilling Plan.

Drill a 17-1/2" hole to 350', run 13-3/8" casing and cement.
Drill a 12-1/4" hole to 2500', run 9-5/8" casing and cement.
Drill a 8-3/4" hole to TD of 7300' for pilot hole, log, run 7" casing and cement.
Set whipstock and mill window from 6800' to 6810'.
Kick off and drill 6-1/8" for lateral to MD 11,590' (TVD 7149').
Run & install Peak Completion Assembly on 4-1/2" csg hanging off in the 7".

2 Casing, Setting Depth and Cementing:

13-3/8" Surface
In 17-1/2" hole, run 13-3/8", 48#, H-40, STC casing to 350'.
Cement:
Lead of 100 sx Light Premium Plus cement + 1 #/sx Pheno Seal + 1% Calcium Chloride
Tail of 250 sx Premium Plus cement + 2% Calcium Chloride
TOC @ surface

9-5/8" Intermediate
In 12-1/4" hole, run 9-5/8", 40#, J-55, LTC casing to 2500'.
Cement:
Lead of 480 sx Interfill C cement + 1 #/sx Pheno Seal
Tail of 250 sx of Premium Plus Cement + 1% Calcium Chloride
TOC @ surface

7" Pilot hole / Production
In 8-3/4" hole, run 7", 26#, P-110, LTC casing to 7300'.
Cement:
Lead of 240 sx Interfill H cement + 1 #/sx Phen Seal + 0.1% HR-7 retarder
Tail of 260 sx Super H cement + 0.5% Halad 344 low fluid loss control + 0.25% D-AIR 3000 defoamer + 0.4% CFR-3 dispersant + 1 #/sx salt accelerator + 3 #/sx Pheno Seal
TOC @ 2000'

4-1/2" Liner
In 6-1/8" hole, run 4-1/2", 11.6#, P-110, BTC/LTC from 6650' to 11,590'
Cement:
No cement needed. Peak completion assembly.

3 Pressure control (BOP) details:

A 11" 5000 psi working pressure B.O.P. consisting of one set of blind rams and one set of pipe rams and a 5000 # annular type preventer. A choke manifold and accumulator with floor and remote operating stations and auxiliary power system. Rotating head below 2500'. A kelly cock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor. BOP unit will be hydraulically operated. BOP will be nippled up on the 9 5/8" casing and will be operated at least once a day while drilling and the blind rams will be operated when out of hole during trips. No abnormal pressure or temperature is expected while drilling.

4 Mud Program - Closed Loop System

Depth	Mud Wt	Viscosity	Fluid Loss	Type Mud
0 - 350'	8.4 - 9 2	28 - 34	May lose circ.	Fresh water gel spud mud. Add paper to control seepage. High viscosity sweeps to clean hole.
350' - 2500'	10.0	28 - 29	May lose circ.	Brine Add paper as needed to control seepage and add lime to control pH. Use high viscosity sweeps to clean hole.
2500' - 7300'	8.4 - 9.5	28 - 29	NC	Fresh wtr / cut Brine. Add paper for seepage and add lime to control pH. Use high viscosity sweeps as needed to clean hole.
6805' - 11590' MD	8 4 - 9.5	29 - 45	NC	Cut brine polymer mud. Adjust weight with brine as needed. Maintain pH.. Use high viscosity sweeps as needed to clean hole.

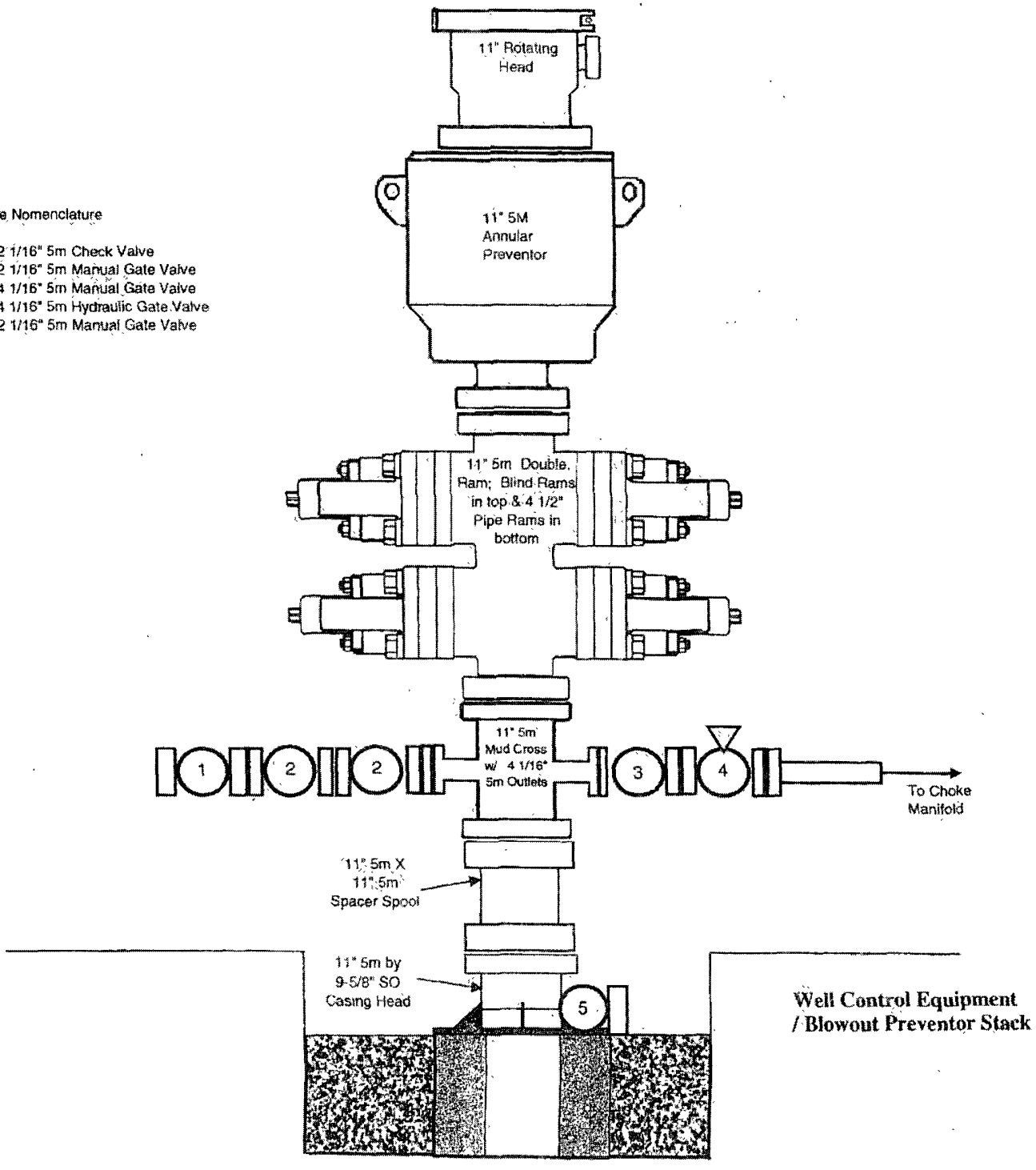
Sufficient mud materials will be kept on location at all times in order to combat lost circulation, or unexpected kicks In order to run DST's, open hole logs, and casing, the viscosity and water loss may have to be adjusted in order to meet these needs. Mud system monitoring equipment with derrick floor indicators and visual/audio alarms shall be installed and operative prior to drilling into the ABO/Wolfcamp formation. This equipment will remain in use until production casing is run and cemented.

Gruy Petroleum Management Co., LLC

Proposed Blowout Preventor Stack

Valve Nomenclature

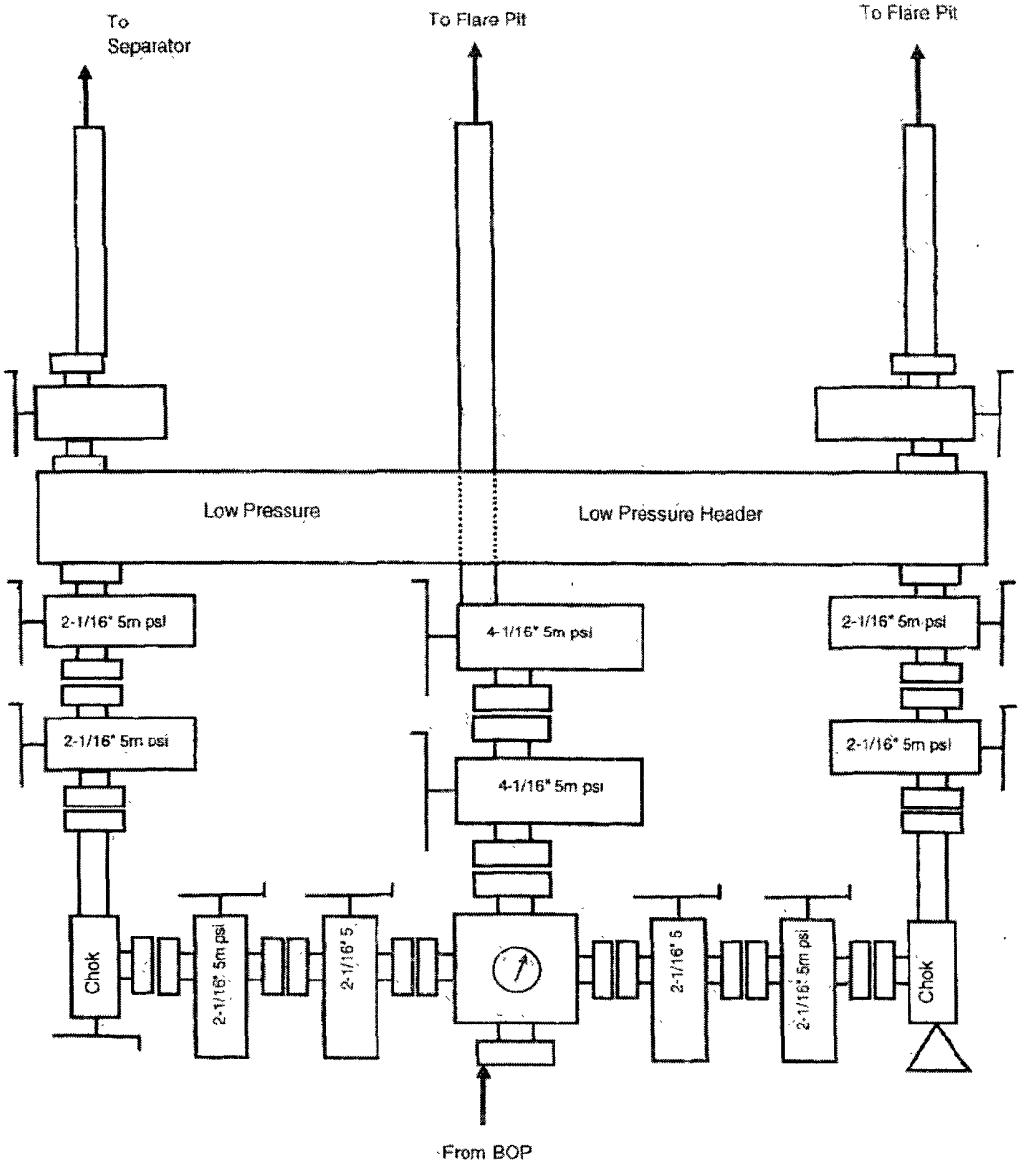
1.) 2 1/16" 5m Check Valve
2.) 2 1/16" 5m Manual Gate Valve
3.) 4 1/16" 5m Manual Gate Valve
4.) 4 1/16" 5m Hydraulic Gate Valve
5.) 2 1/16" 5m Manual Gate Valve



Well Control Equipment / Blowout Preventor Stack

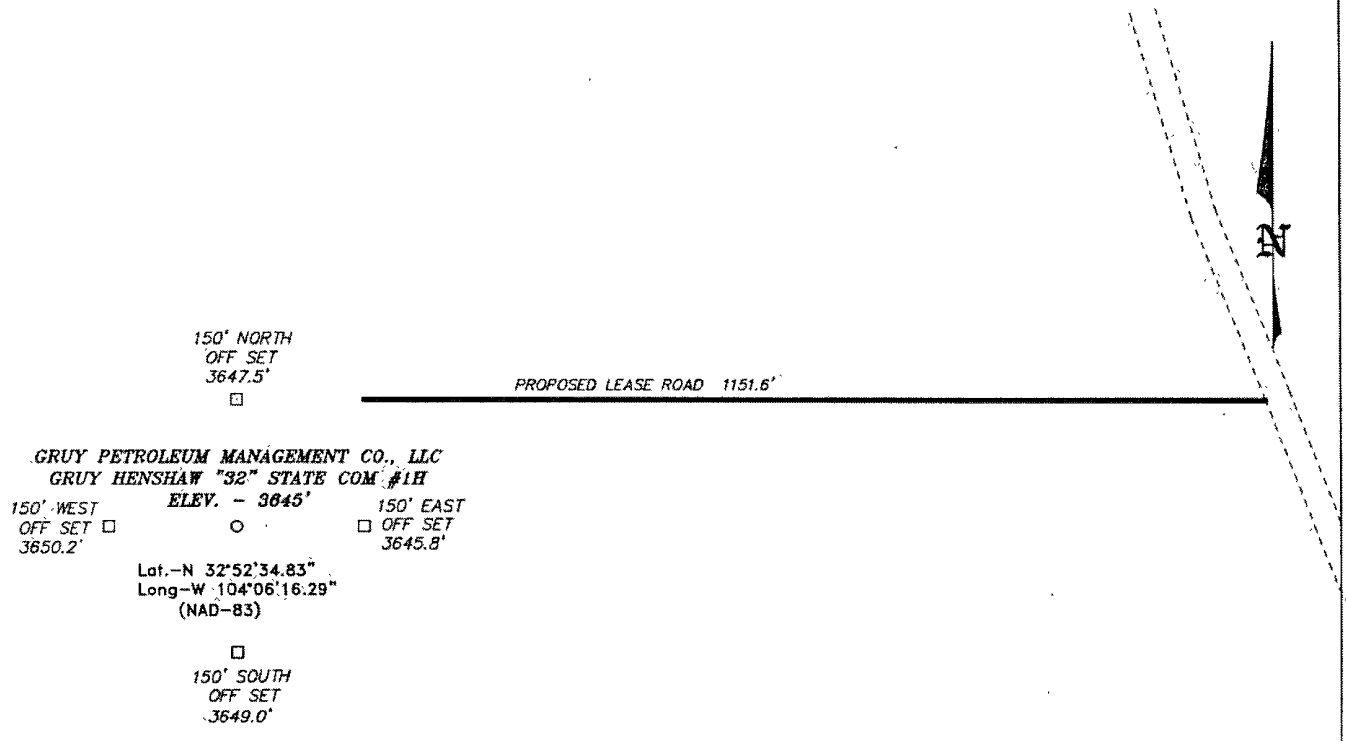
Gruy Petroleum Management Co., LLC

Choke Manifold



Choke Manifold and Closing Unit

SECTION 32, TOWNSHIP 16 SOUTH, RANGE 29 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



200 0 200 400 FEET

SCALE: 1" = 200'

Directions to Location:

FROM THE JUNCTION OF HWY 82 AND OLD LOCO, GO 3.5 MILES ON OLD LOCO TO LEASE ROAD, ON LEASE ROAD GO NORTH 0.9 MILES TO PROPOSED LEASE ROAD.

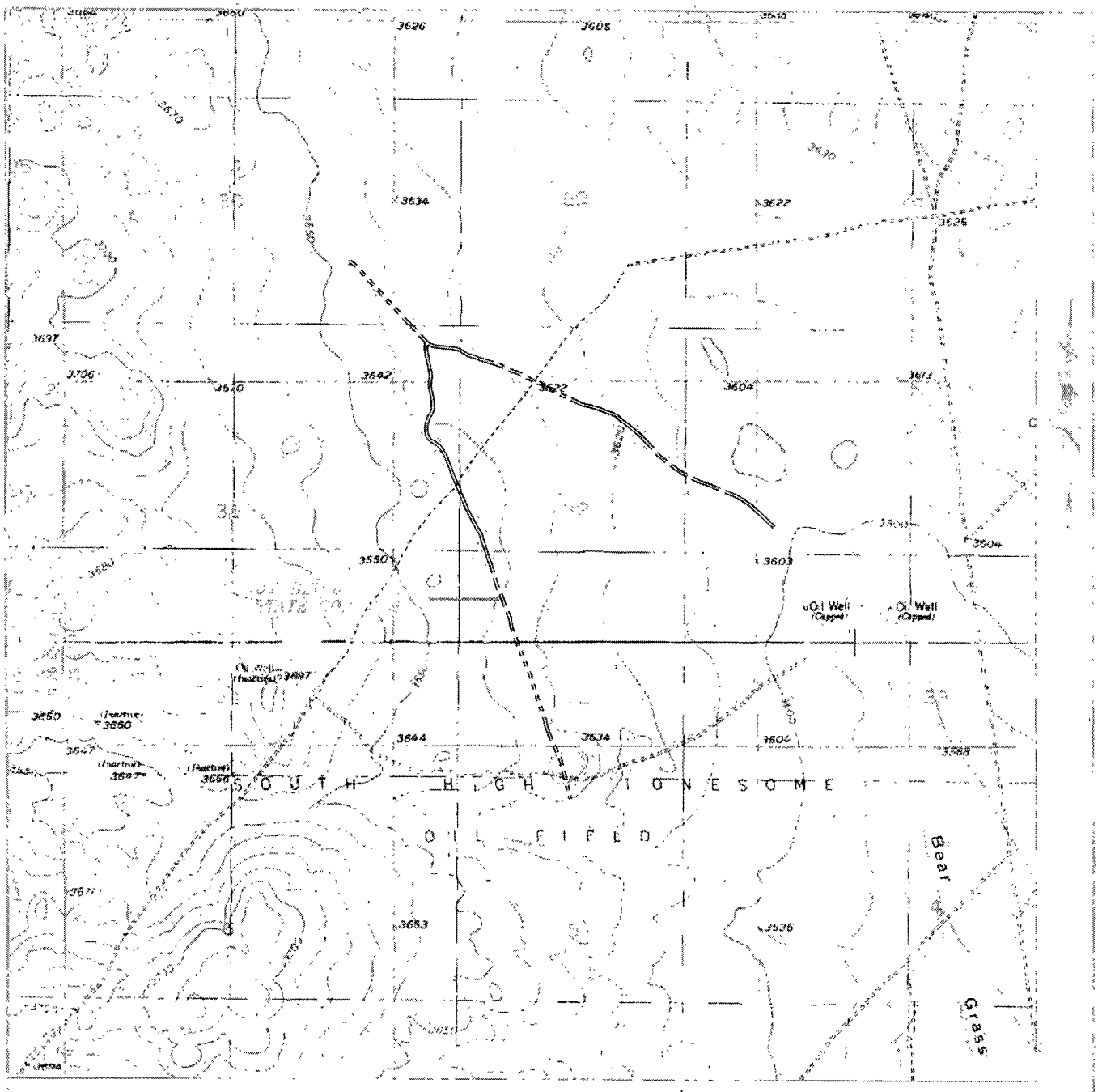
GRUY PETROLEUM MANAGEMENT CO., LLC

REF: GRUY HENSHAW "32" STATE COM #1H / WELL PAD TOPO

THE GRUY HENSHAW "32" STATE COM #1H LOCATED 1980' FROM THE SOUTH LINE AND 330' FROM THE WEST LINE OF SECTION 32, TOWNSHIP 16 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

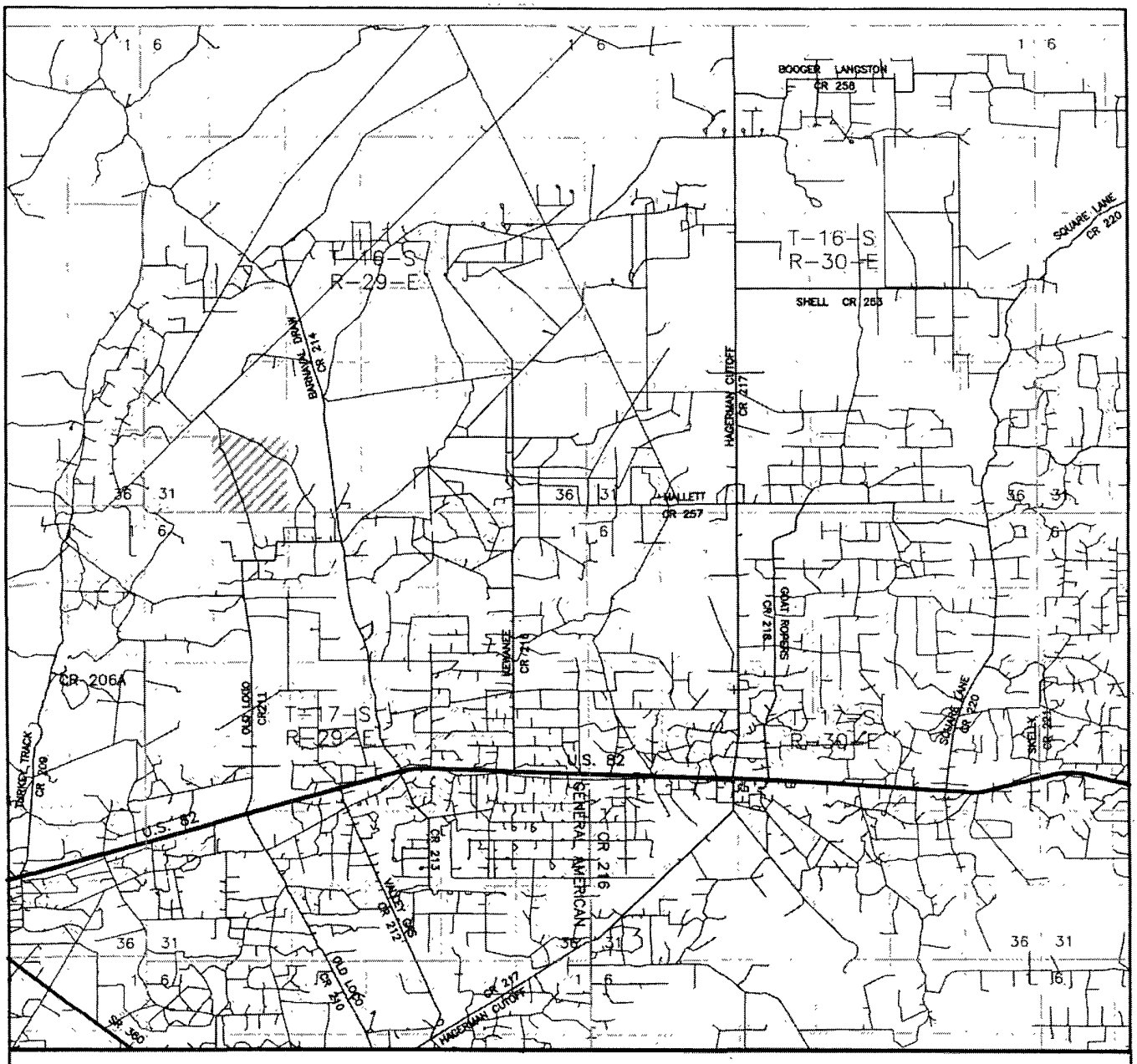
BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO

W.O. Number: 20187	Drawn By: J. SMALL		
Date: 09-17-2008	Disk: JMS 20187	Survey Date: 09-16-2008	Sheet 1 of 1 Sheets



GRUY [illegible]
located [illegible]' FSL and 330' FWL
[illegible]ction 31, Township 10 South, [illegible] 29 East,
N.M.P.M., Eddy County, New Mexico

GRUY PETROLEUM MANAGEMENT CO., LLC



GRUY HENSHAW "32" STATE COM #1H
Located 1980' FSL and 330' FWL
Section 32, Township 16 South, Range 29 East,
N.M.P.M., Eddy 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
basinsurveys.com

W.O. Number:	JMS 20187
Survey Date:	09-16-2008
Scale:	1" = 2 MILES
Date:	09-17-2008

GRUY PETROLEUM MANAGEMENT CO., LLC

Gruy Petroleum Management Co., LLC

HALLIBURTON
Sperry Drilling Services

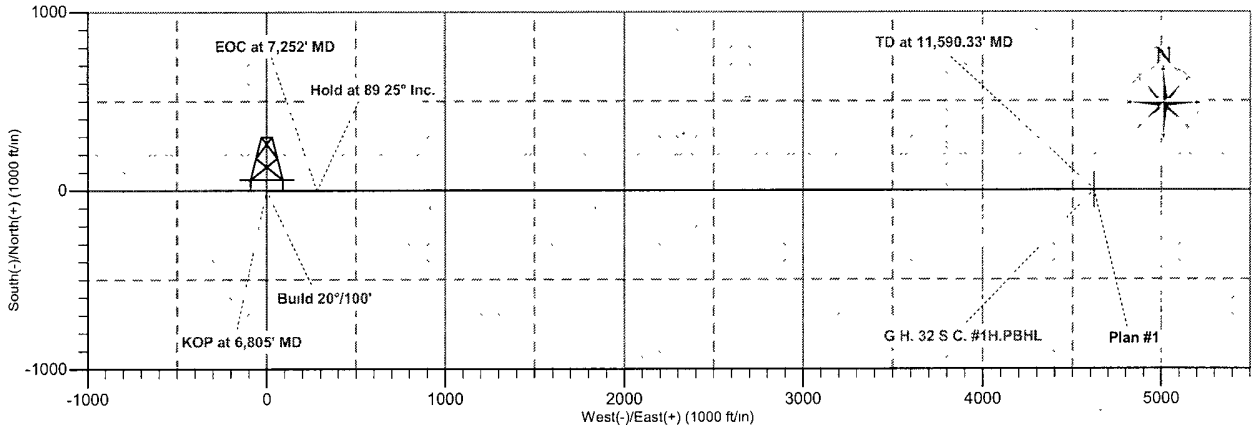
Project: Eddy County, NM
Site: Gruy Henshaw 32 State Com
Well: 1H
Wellbore: ST01
Plan: Plan #1 (1H/ST01)
Rig: TBD

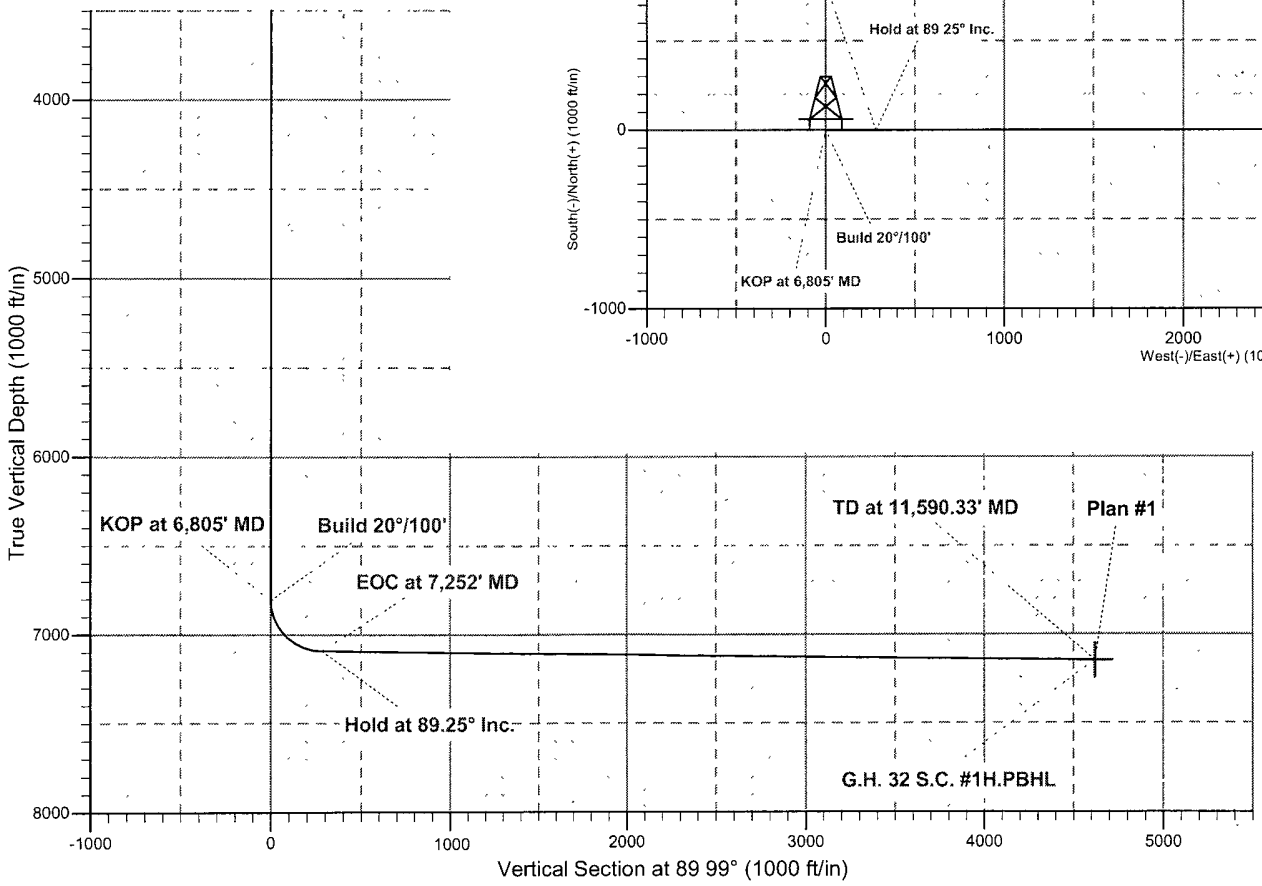
SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Annotation
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
6805 76	0 00	0 00	6805 76	0 00	0 00	0 00	0 00	0 00	KOP at 6,805' MD
7252 01	89 25	89 99	7092 21	0 07	282 73	20 00	89 99	282 73	EOC at 7,252' MD
11590 33	89 25	89 99	7149 00	1 18	4620 68	0 00	0 00	4620 68	TD at 11,590.33' MD

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
G H 32 S C #1H PBHL	7149 00	1 18	4620 68	682623 68	616202 98	Point





Surface Location:

US State Plane 1927 (Exact solution)
New Mexico East 3001
Elevation GL 3648' KB 18' @ 3648 00ft (TBD)

Northing	Easting	Latitude	Longitude
682622 50	611582 30	32° 52' 33 899 N	103° 58' 11 594 W

To convert a Magnetic Direction to a Grid Direction, Add 8 00°

Magnetic Model BGGM2007 Date 25-Sep-08
Azimuths to Grid North

Gruy Petroleum Management Co., LLC

Eddy County, NM
Gruy Henshaw 32 State Com
1H

ST01

Plan: Plan #1

Sperry Drilling Services

Proposal Report

25 September, 2008

Well Coordinates: 682,622 50 N, 611,582 30 E (32° 52' 33.90" N, 103° 58' 11 59" W)
Ground Level: 3,648.00 ft

Local Coordinate Origin:	Centered on Well 1H
Viewing Datum	GL 3648' KB 18' @ 3648 00ft (TBD)
TVDs to System	N
North Reference	Grid
Unit System:	API - U.S Survey Feet

Version. 2003 16 Build: 42B

HALLIBURTON

Plan Report for 1H - Plan #1

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
0.00	0.00	0 00	0 00	0 00	0.00	0 00	0.00	0 00	0 00	0.00
100.00	0 00	0.00	100 00	0 00	0.00	0 00	0.00	0.00	0 00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0 00	0 00	0.00	0 00	0.00
300.00	0 00	0.00	300 00	0.00	0.00	0.00	0 00	0 00	0 00	0 00
400.00	0 00	0 00	400.00	0 00	0 00	0 00	0.00	0.00	0 00	0 00
500 00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0 00	0 00
600 00	0.00	0.00	600 00	0.00	0.00	0.00	0 00	0.00	0 00	0 00
700 00	0.00	0 00	700 00	0.00	0.00	0.00	0 00	0 00	0.00	0 00
800.00	0.00	0 00	800 00	0 00	0 00	0 00	0 00	0 00	0.00	0.00
900 00	0 00	0.00	900.00	0.00	0.00	0.00	0 00	0 00	0 00	0.00
1,000 00	0 00	0.00	1,000.00	0 00	0.00	0.00	0.00	0 00	0.00	0.00
1,100 00	0 00	0 00	1,100.00	0 00	0 00	0 00	0.00	0 00	0 00	0 00
1,200.00	0 00	0 00	1,200 00	0 00	0.00	0 00	0.00	0 00	0 00	0 00
1,300 00	0.00	0 00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0 00
1,400.00	0.00	0 00	1,400 00	0.00	0.00	0 00	0.00	0 00	0.00	0.00
1,500.00	0.00	0.00	1,500 00	0.00	0.00	0.00	0 00	0.00	0.00	0.00
1,600 00	0.00	0.00	1,600 00	0.00	0 00	0.00	0 00	0.00	0.00	0.00
1,700.00	0 00	0.00	1,700.00	0 00	0 00	0.00	0 00	0.00	0.00	0.00
1,800 00	0 00	0.00	1,800.00	0.00	0 00	0 00	0 00	0.00	0.00	0 00
1,900 00	0 00	0 00	1,900.00	0.00	0 00	0 00	0.00	0 00	0 00	0 00
2,000.00	0 00	0.00	2,000.00	0 00	0.00	0 00	0.00	0.00	0 00	0 00
2,100.00	0.00	0.00	2,100 00	0 00	0.00	0 00	0.00	0.00	0 00	0 00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0 00	0.00	0.00	0.00	0 00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0 00	0.00	0.00	0 00	0.00
2,400 00	0.00	0 00	2,400.00	0.00	0 00	0 00	0.00	0.00	0.00	0 00
2,500 00	0 00	0 00	2,500.00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
2,600.00	0 00	0 00	2,600.00	0 00	0 00	0.00	0 00	0 00	0 00	0.00
2,700.00	0 00	0 00	2,700.00	0 00	0 00	0.00	0 00	0 00	0.00	0 00
2,800 00	0 00	0 00	2,800 00	0 00	0 00	0.00	0 00	0 00	0.00	0 00
2,900 00	0.00	0.00	2,900.00	0.00	0.00	0 00	0.00	0.00	0.00	0 00
3,000.00	0.00	0.00	3,000 00	0.00	0.00	0 00	0.00	0.00	0 00	0 00
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3,400 00	0 00	0.00	3,400.00	0.00	0.00	0.00	0 00	0 00	0.00	0 00
3,500 00	0 00	0.00	3,500.00	0 00	0 00	0.00	0 00	0 00	0 00	0 00
3,600 00	0.00	0 00	3,600.00	0 00	0 00	0 00	0.00	0.00	0.00	0.00
3,700 00	0 00	0.00	3,700 00	0.00	0.00	0.00	0 00	0 00	0 00	0.00
3,800.00	0 00	0 00	3,800 00	0 00	0 00	0 00	0 00	0 00	0 00	0.00
3,900.00	0.00	0 00	3,900 00	0 00	0.00	0 00	0.00	0.00	0.00	0.00
4,000 00	0 00	0 00	4,000 00	0 00	0.00	0.00	0.00	0 00	0.00	0.00
4,100 00	0 00	0 00	4,100 00	0 00	0.00	0 00	0 00	0 00	0.00	0.00
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4,400 00	0 00	0.00	4,400 00	0.00	0 00	0.00	0 00	0 00	0 00	0 00
4,500 00	0.00	0.00	4,500 00	0.00	0 00	0 00	0 00	0 00	0 00	0 00
4,600.00	0 00	0.00	4,600.00	0 00	0 00	0 00	0.00	0.00	0 00	0.00
4,700.00	0.00	0.00	4,700 00	0.00	0 00	0 00	0 00	0 00	0 00	0 00
4,800.00	0.00	0 00	4,800.00	0.00	0 00	0 00	0.00	0.00	0 00	0 00
4,900 00	0 00	0 00	4,900.00	0.00	0 00	0 00	0 00	0 00	0 00	0 00
5,000.00	0 00	0 00	5,000.00	0 00	0.00	0 00	0.00	0.00	0 00	0 00
5,100.00	0.00	0.00	5,100.00	0 00	0.00	0 00	0.00	0 00	0 00	0 00
5,200 00	0.00	0.00	5,200.00	0.00	0.00	0 00	0.00	0.00	0 00	0 00
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5,400 00	0 00	0 00	5,400.00	0 00	0.00	0 00	0 00	0.00	0 00	0 00
5,500 00	0 00	0 00	5,500 00	0.00	0.00	0.00	0.00	0.00	0 00	0.00
5,600.00	0.00	0.00	5,600 00	0 00	0.00	0 00	0.00	0 00	0.00	0.00
5,700 00	0 00	0 00	5,700 00	0 00	0.00	0 00	0 00	0 00	0 00	0.00
5,800 00	0 00	0 00	5,800 00	0 00	0.00	0.00	0 00	0 00	0.00	0.00

Plan Report for 1H - Plan #1

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
5,900 00	0.00	0 00	5,900.00	0 00	0 00	0 00	0.00	0.00	0 00	0 00
6,000.00	0 00	0 00	6,000.00	0.00	0 00	0.00	0 00	0 00	0.00	0 00
6,100.00	0 00	0.00	6,100 00	0.00	0.00	0 00	0 00	0 00	0 00	0.00
6,200 00	0.00	0.00	6,200 00	0 00	0 00	0 00	0 00	0 00	0.00	0.00
6,300.00	0 00	0 00	6,300 00	0.00	0 00	0 00	0 00	0 00	0 00	0.00
6,400 00	0.00	0 00	6,400.00	0.00	0 00	0 00	0 00	0 00	0 00	0.00
6,500 00	0.00	0.00	6,500.00	0 00	0 00	0.00	0 00	0 00	0 00	0.00
6,600 00	0 00	0.00	6,600.00	0 00	0 00	0.00	0 00	0 00	0.00	0.00
6,700 00	0 00	0 00	6,700 00	0.00	0.00	0.00	0.00	0 00	0 00	0.00
6,800 00	0 00	0 00	6,800 00	0.00	0.00	0 00	0.00	0.00	0 00	0.00
6,805 76	0 00	0.00	6,805.76	0 00	0 00	0 00	0.00	0 00	0.00	0 00
KOP at 6,805' MD - Build 20°/100'										
6,900 00	18 85	89.99	6,898.31	0.00	15 36	15 36	20 00	20 00	0.00	89 99
7,000.00	38 85	89.99	6,985.46	0.02	63.37	63 37	20 00	20 00	0.00	0.00
7,100.00	58 85	89.99	7,050.93	0.04	138.28	138.28	20 00	20 00	0 00	0 00
7,200.00	78 85	89 99	7,086 83	0.06	231.07	231 07	20 00	20 00	0.00	0 00
7,252.01	89.25	89 99	7,092 21	0.07	282.73	282.73	20.00	20 00	0.00	0 00
EOC at 7,252' MD - Hold at 89.25° Inc.										
7,300 00	89 25	89 99	7,092.84	0.08	330 72	330 72	0.00	0 00	0.00	0.00
7,400 00	89 25	89 99	7,094.15	0.11	430 71	430.71	0.00	0.00	0.00	0.00
7,500 00	89 25	89.99	7,095.46	0 14	530 70	530 70	0 00	0.00	0.00	0.00
7,600.00	89 25	89.99	7,096.77	0 16	630 69	630 69	0.00	0 00	0.00	0.00
7,700.00	89.25	89 99	7,098 08	0 19	730.68	730.68	0.00	0 00	0 00	0.00
7,800 00	89.25	89 99	7,099 39	0 21	830.67	830.67	0 00	0 00	0 00	0.00
7,900 00	89.25	89 99	7,100.70	0 24	930.66	930.66	0 00	0.00	0.00	0 00
8,000.00	89.25	89 99	7,102.00	0 26	1,030.66	1,030.66	0.00	0.00	0.00	0 00
8,100.00	89 25	89 99	7,103 31	0.29	1,130 65	1,130.65	0.00	0.00	0 00	0 00
8,200 00	89.25	89.99	7,104.62	0.32	1,230 64	1,230.64	0.00	0.00	0 00	0 00
8,300.00	89 25	89.99	7,105.93	0.34	1,330 63	1,330 63	0.00	0 00	0 00	0.00
8,400 00	89 25	89.99	7,107.24	0 37	1,430 62	1,430 62	0 00	0 00	0.00	0.00
8,500.00	89 25	89.99	7,108.55	0.39	1,530.61	1,530 61	0 00	0 00	0 00	0.00
8,600.00	89 25	89 99	7,109 86	0.42	1,630 60	1,630.60	0 00	0 00	0.00	0 00
8,700 00	89.25	89 99	7,111 17	0.44	1,730.60	1,730.60	0 00	0.00	0 00	0.00
8,800 00	89.25	89 99	7,112 48	0.47	1,830 59	1,830.59	0.00	0.00	0 00	0 00
8,900.00	89 25	89 99	7,113 78	0.49	1,930.58	1,930.58	0.00	0.00	0 00	0.00
9,000 00	89 25	89 99	7,115 09	0.52	2,030.57	2,030.57	0.00	0 00	0.00	0.00
9,100 00	89 25	89.99	7,116.40	0.55	2,130 56	2,130 56	0.00	0.00	0 00	0 00
9,200.00	89.25	89 99	7,117.71	0.57	2,230.55	2,230 55	0 00	0 00	0 00	0.00
9,300 00	89 25	89.99	7,119 02	0 60	2,330.54	2,330 54	0 00	0.00	0 00	0 00
9,400 00	89 25	89.99	7,120 33	0 62	2,430.54	2,430.54	0.00	0 00	0 00	0 00
9,500 00	89 25	89.99	7,121 64	0 65	2,530.53	2,530.53	0.00	0.00	0.00	0 00
9,600.00	89 25	89 99	7,122 95	0 67	2,630 52	2,630.52	0.00	0.00	0.00	0 00
9,700 00	89 25	89 99	7,124 26	0 70	2,730 51	2,730 51	0.00	0.00	0 00	0.00
9,800 00	89.25	89 99	7,125 57	0 72	2,830 50	2,830 50	0.00	0.00	0 00	0.00
9,900 00	89 25	89 99	7,126 87	0 75	2,930 49	2,930 49	0.00	0 00	0 00	0.00
10,000 00	89.25	89 99	7,128 18	0 78	3,030 48	3,030 48	0.00	0 00	0 00	0.00
10,100 00	89.25	89 99	7,129 49	0.80	3,130 48	3,130 48	0 00	0 00	0 00	0.00
10,200 00	89.25	89 99	7,130 80	0.83	3,230 47	3,230.47	0 00	0 00	0 00	0.00
10,300 00	89.25	89 99	7,132 11	0.85	3,330.46	3,330 46	0.00	0 00	0.00	0 00
10,400.00	89.25	89 99	7,133 42	0.88	3,430 45	3,430.45	0 00	0.00	0.00	0 00
10,500 00	89 25	89.99	7,134.73	0.90	3,530.44	3,530.44	0.00	0.00	0.00	0.00
10,600 00	89 25	89.99	7,136 04	0.93	3,630.43	3,630 43	0.00	0 00	0 00	0 00
10,700 00	89.25	89.99	7,137 35	0.96	3,730.42	3,730.42	0 00	0.00	0.00	0 00
10,800 00	89 25	89 99	7,138.65	0.98	3,830.42	3,830.42	0.00	0.00	0 00	0 00
10,900 00	89.25	89 99	7,139.96	1.01	3,930.41	3,930.41	0.00	0.00	0.00	0.00
11,000.00	89 25	89 99	7,141.27	1 03	4,030 40	4,030.40	0.00	0 00	0 00	0.00
11,100.00	89.25	89.99	7,142 58	1 06	4,130 39	4,130.39	0.00	0.00	0 00	0.00
11,200.00	89 25	89.99	7,143 89	1 08	4,230 38	4,230.38	0.00	0.00	0 00	0.00
11,300 00	89 25	89.99	7,145 20	1 11	4,330 37	4,330 37	0.00	0 00	0.00	0 00

Plan Report for 1H - Plan #1

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
11,400.00	89 25	89 99	7,146.51	1 13	4,430.36	4,430 36	0.00	0 00	0 00	0 00
11,500.00	89.25	89 99	7,147.82	1 16	4,530.36	4,530 36	0.00	0.00	0 00	0 00
11,590 33	89.25	89.99	7,149.00	1 18	4,620.68	4,620 68	0 00	0.00	0.00	0 00

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
6,805 76	6,805 76	0.00	0 00	KOP at 6,805' MD
6,805 76	6,805.76	0.00	0 00	Build 20°/100'
7,252 01	7,092.21	0 07	282.73	EOC at 7,252' MD
7,252 01	7,092 21	0 07	282.73	Hold at 89.25° Inc.
11,590.33	7,149.00	1.18	4,620.68	TD at 11,590.33' MD

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/_S (ft)	Origin +E/-W (ft)	Start TVD (ft)
Target	G.H. 32 S.C. #1H PBHL	89.99	Slot	0.00	0 00	7,149 00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
0.00	11,590.33	Plan #1	MWD

Targets associated with this wellbore

Target Name	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Shape
G H 32 S C. #1H PBHL	7,149.00	1 18	4,620.68	Point

North Reference Sheet for Gruy Henshaw 32 State Com - 1H - ST01

All data is in US Feet unless otherwise stated Directions and Coordinates are relative to Grid North Reference.
Vertical Depths are relative to GL 3648' KB 18' @ 3648 00ft (TBD) Northing and Easting are relative to 1H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 3001 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Transverse Mercator (Gauss-Kruger)
Central Meridian is -104.33°, Longitude Origin 0° 0' 0 000 E°, Latitude Origin 0° 0' 0 000 N°
False Easting: 500,000 00ft, False Northing: 0.00ft, Scale Reduction: 0 99992335

Grid Coordinates of Well: 682,622 50 ft N, 611,582 30 ft E
Geographical Coordinates of Well: 32° 52' 33.90" N, 103° 58' 11.59" W
Grid Convergence at Surface is. 0 20°

Based upon Minimum Curvature type calculations, at a Measured Depth of 11,590.33ft
the Bottom Hole Displacement is 4,620.68ft in the Direction of 89 99° (Grid)

Magnetic Convergence at surface is: -8.00° (25 September 2008, , BGGM2007)