

30.015.36428

6/23/08

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 & Natural Resources

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

Form C-101
May 27, 2004

OCD-
ARTESIA

Submit to appropriate District Office

☐ AMENDED REPORT

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

¹ Operator Name and Address Nearburg Producing Company 3300 N A St., Bldg 2, Ste 120, Midland, TX 79705		² OGRID Number 015742
⁴ Property Code 37859	⁵ Property Name Gerlach 32 Fee	³ API Number 30-015-36428
⁹ Proposed Pool 1 Willow Lake, Delaware ✓		⁶ Well No 1H
¹⁰ Proposed Pool 2		

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
B	32	24S	29E		462	North	2485	East	Eddy

⁸ 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
G	32	24S	29E		2310	North	2310	East	Eddy

Additional Well Location

¹¹ Work Type Code N	¹² Well Type Code O	¹³ Cable/Rotary R	¹⁴ Lease Type Code Fee	¹⁵ Ground Level Elevation 2938
¹⁶ Multiple No	¹⁷ Proposed Depth 6925	¹⁸ Formation Delaware	¹⁹ Contractor United	²⁰ Spud Date 7/1/08
Depth to ground water		Distance from nearest fresh water well		Distance from nearest surface water
Pit: Liner: Synthetic ☐ _____ mils thick Clay ☐ Pit Volume _____ bbls Drilling Method: Closed-Loop System ☐ Fresh Water ☐ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐				

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17-1/2	13-3/8	48	650	570 sxs	surface
11	8-5/8	32	2750	1000 sxs	surface
7-7/8	5-1/2	17	6859	1000 sxs	2500'

²² 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.

NPC proposes to drill the well to sufficient depth to evaluate the Delaware formation. Perf, test and stimulate as necessary to establish production.

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 the drilling pit will be constructed according to NMOCD guidelines ☒ a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Signature: *Sarah Jordan*
Printed name: Sarah Jordan

Title: Production Analyst

E-mail Address: sjordan@nearburg.com

Date: 6-20-08

Phone: 432/686-8235

OIL CONSERVATION DIVISION

Approved by: *Jim W. Green*

Title: *District II Supervisor*

Approval Date: 7/10/08

Expiration Date: 7/10/10

Conditions of Approval:

Attached ☐

DISTRICT I
1025 N. YERGENIE DR., HOBBBS, NM 86240

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 80210

DISTRICT III
1000 Rio Brazos Rd., Artes, NM 87410

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-36428	Pool Code 64450	Pool Name Willow Lake, Delaware
Property Code 37259	Property Name GERLACH 32 FEE	Well Number 1H
OCRID No. 05042	Operator Name NEARBURG PRODUCING COMPANY	2938' 2938'

Surface Location

III. or lot No.	Section	Township	Range	lot Idn	Feet from the	North/South line	Feet from the	WEST/West line	County
B	32	24-S	29-E		462	NORTH	2485	EAST	EDDY

Bottom Hole Location If Different From Surface

III. or lot No.	Section	Township	Range	lot Idn	Feet from the	North/South line	Feet from the	WEST/West line	County
G	32	24-S	29-E		2310	NORTH	2310	EAST	EDDY

Dedicated Acres 80	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=429251.7 N X=601389.1 E LAT.=32.179706° N LONG.=104.005626° W		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 undivided 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>[Signature]</i> Date: 6/20/08 Printed Name: Stordan
BOTTOM HOLE LOCATION Y=427403.5 N X=601570.8 E		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. Date Surveyed: 6/19/08 Signature & Seal of Professional Surveyor: <i>[Signature]</i> 3239 Certificate No. CARY G. EIDSON 12541 RONALD J. EIDSON 3239

MALAGA, N.M. - 10'

SUPPLEMENTAL CONTOUR INTERVAL - 5'
PIERCE CANYON, N.M. - 10'

SEC. 32 TWP. 24-S RGE. 29-E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

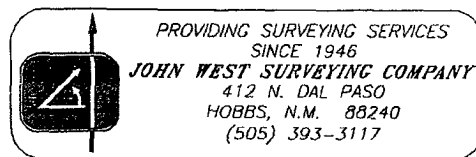
DESCRIPTION 462' FNL & 2485' FEL

ELEVATION _____ 2938'

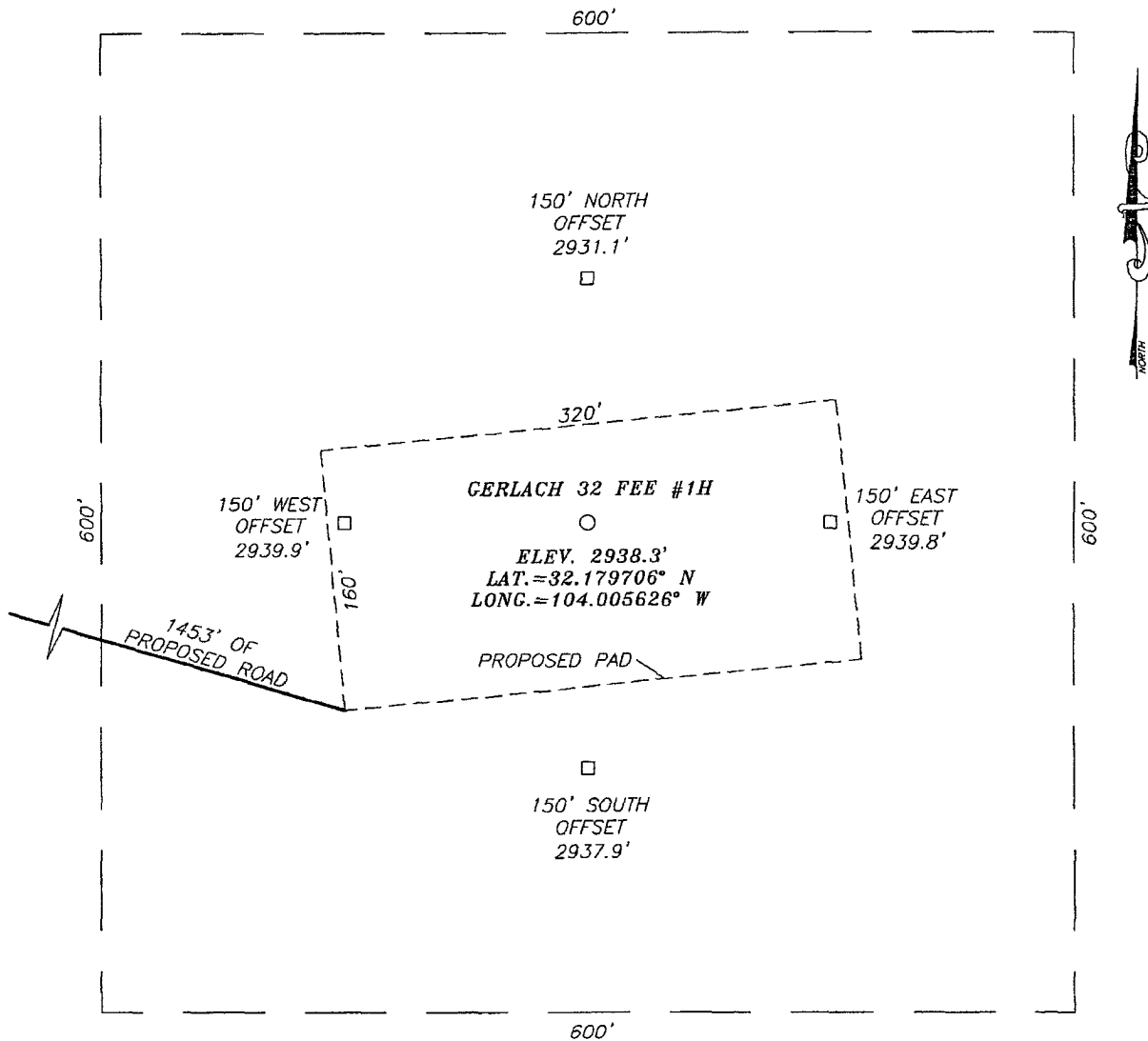
OPERATOR NEARBURG PRODUCING
 COMPANY

LEASE GERLACH 32 FEE

U.S.G.S. TOPOGRAPHIC MAP
MALAGA, N.M.

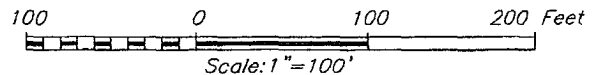


SECTION 32, TOWNSHIP 24 SOUTH, RANGE 29 WEST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF CO. RD. #720 AND
CO. RD. #746, GO SOUTH, THEN EAST ON CO.
RD. #746 APPROX. 3.0 MILES. TURN RIGHT AND
GO SOUTH-SOUTHWEST APPROX. 1.5 MILES.
VEER LEFT AND CONTINUE EAST APPROX. 0.5
MILES. VEER RIGHT AND GO SOUTH, THEN
SOUTHEAST APPROX. 0.6 MILES TO A PROPOSED
ROAD SURVEY. FOLLOW ROAD SURVEY
SOUTHEAST APPROX. 1453 TO THIS LOCATION.



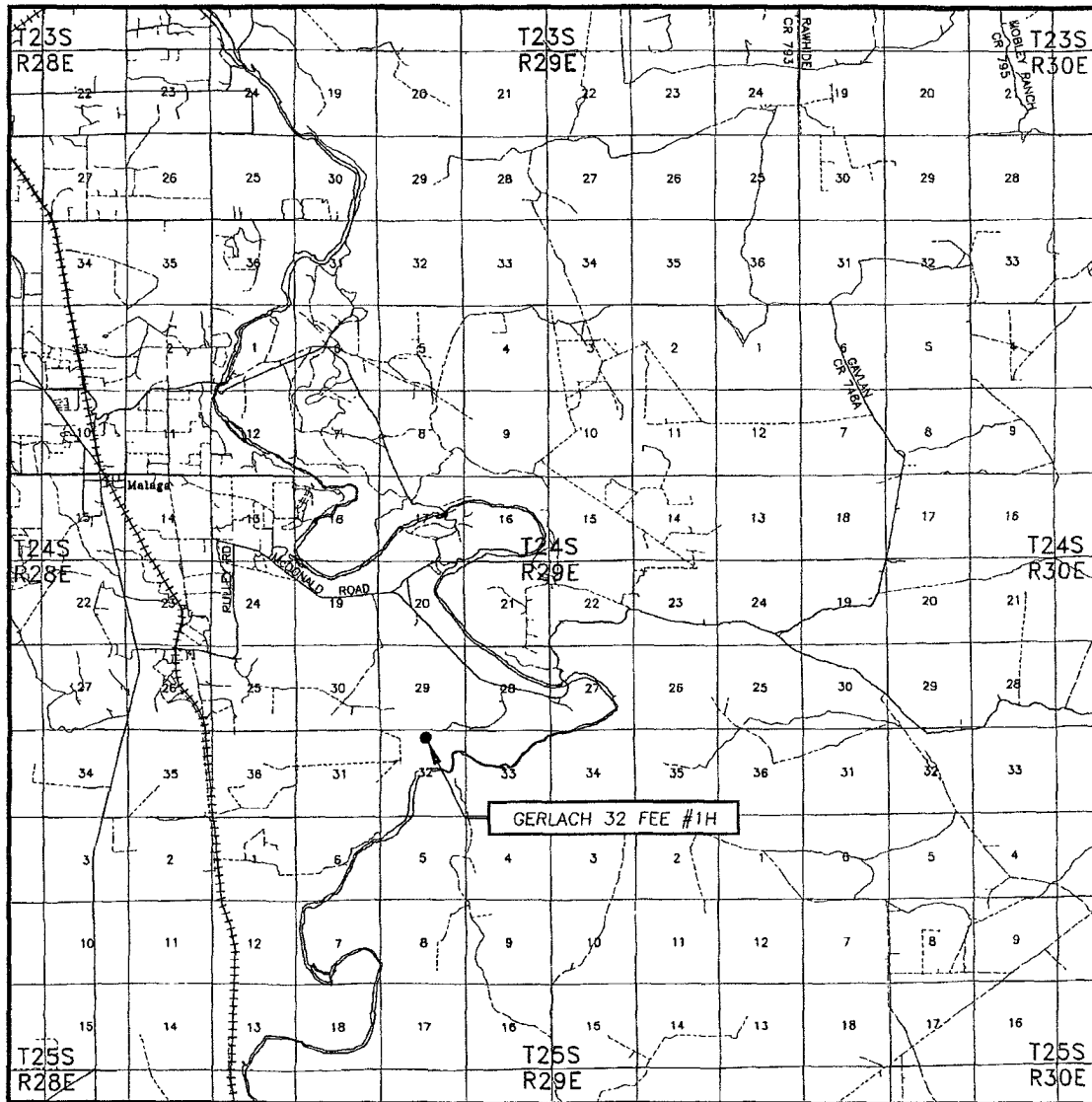
NEARBURG PRODUCING COMPANY

GERLACH 32 FEE #1H WELL
LOCATED 462 FEET FROM THE NORTH LINE
AND 2485 FEET FROM THE EAST LINE OF SECTION 32,
TOWNSHIP 24 SOUTH, RANGE 29 WEST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.

PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

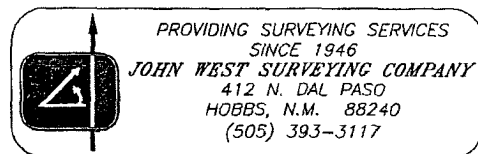
Survey Date: 6/10/08	Sheet 1 of 1 Sheets
W.O. Number: 08.11.0930	Dr By: LA
Date: 6/17/08	08110930
	Scale: 1"=100'

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 32 TWP. 24-S RGE. 29-E
 SURVEY N.M.P.M.
 COUNTY EDDY STATE NEW MEXICO
 DESCRIPTION 462' FNL & 2485' FEL
 ELEVATION 2938'
 OPERATOR NEARBURG PRODUCING COMPANY
 LEASE GERLACH 32 FEE



NEARBURG PRODUCTION

Project: Eddy County, NM.
Site: Gerlack 32 Fee #1H
Well: Gerlack 32 Fee #1H
Wellbore: Lateral #1
Plan Plan #1 (Gerlack 32 Fee #1H/Lateral #1)



PROJECT DETAILS Eddy County, NM

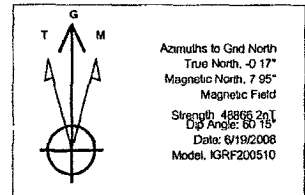
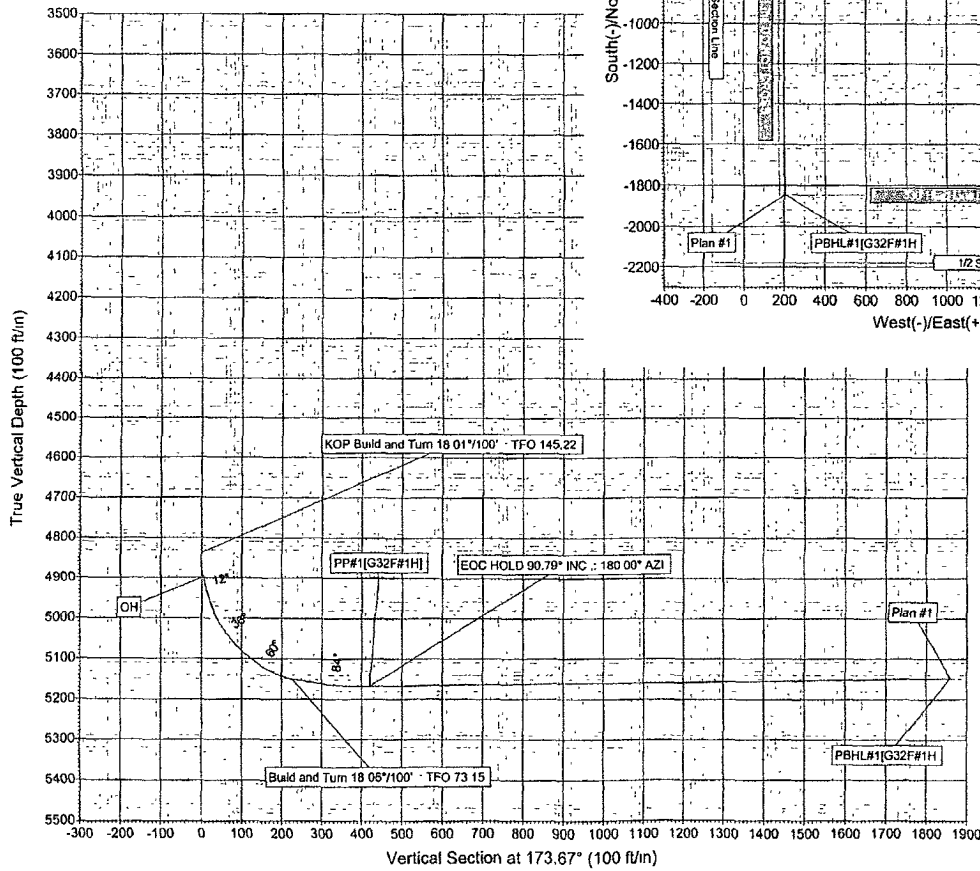
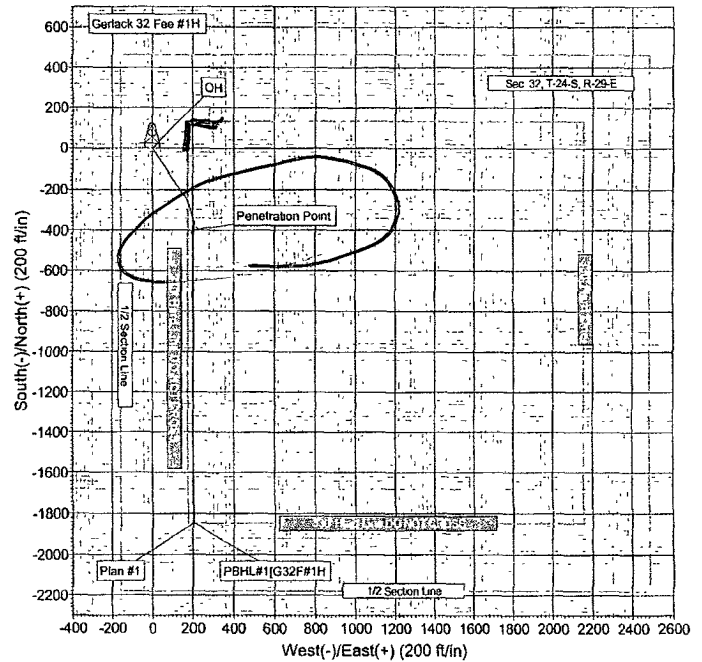
Geodetic System US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	4837.00	0.00	0.00	4837.00	0.00	0.00	0.00	0.00	0.00	
2	5274.68	78.82	145.22	5149.11	-210.64	146.31	18.01	145.22	225.49	
3	5477.24	90.79	180.00	5168.00	-400.00	205.00	18.06	73.15	420.16	PP#1[G32F#1H]
4	6925.38	90.79	180.00	5148.00	-1848.00	205.00	0.00	0.00	1859.34	PBHL#1[G32F#1H]

ANNOTATIONS

TVD	MD	Annotation
4837.00	4837.00	KOP Build and Turn 18.01°/100' · TFO 145.22
5149.12	5274.68	Build and Turn 18.06°/100' · TFO 73.15
5168.00	5477.24	EOC HOLD 90.79° INC : 180.00° AZI



Nearburg Producing Co.

Eddy County, NM.

Gerlack 32 Fee #1H

Gerlack 32 Fee #1H

Lateral #1

Plan: Plan #1

Standard Planning Report

19 June, 2008

Black Viper Energy

Planning Report

Database: EDM 2003 14 Server Db
 Company: Nearburg Producing Co.
 Project: Eddy County, NM.
 Site: Gerlack 32 Fee #1H
 Well: Gerlack 32 Fee #1H
 Wellbore: Lateral #1
 Design: Plan #1

Local Co-ordinate Reference: Well Gerlack 32 Fee #1H
 TVD Reference: WELL @ 2938.00ft (Original Well Elev)
 MD Reference: WELL @ 2938.00ft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Project	Eddy County, NM.		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Gerlack 32 Fee #1H			
Site Position:		Northing:	429,251.70 ft	Latitude: 32° 10' 46.931 N
From: Map		Easting:	601,389.10 ft	Longitude: 104° 0' 20.268 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence: 0.17 °

Well	Gerlack 32 Fee #1H			
Well Position	+N/-S	0.00 ft	Northing:	429,251.70 ft
	+E/-W	0.00 ft	Easting:	601,389.10 ft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level: 2,938.00 ft

Wellbore	Lateral #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	6/19/2008	8.12	60.15	48,866

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	4,837.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	173.67

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
4,837.00	0.00	0.00	4,837.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,274.68	78.82	145.22	5,149.11	-210.64	146.31	18.01	18.01	0.00	145.22	
5,477.24	90.79	180.00	5,168.00	-400.00	205.00	18.06	5.91	17.17	73.15	PP#1[G32F#1H]
6,925.38	90.79	180.00	5,148.00	-1,848.00	205.00	0.00	0.00	0.00	0.00	PBHL#1[G32F#1H]

Black Viper Energy

Planning Report

Database: EDM 2003 14 Server Db
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 TVD Reference: WELL @ 2938.00ft (Original Well Elev)
 MD Reference: WELL @ 2938.00ft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

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)
4,837.00	0.00	0.00	4,837.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Build and Turn 18.01°/100' :: TFO 145.22									
4,860.00	4.14	145.22	4,859.98	-0.68	0.47	0.73	18.01	18.01	0.00
4,890.00	9.54	145.22	4,889.76	-3.62	2.51	3.87	18.01	18.01	0.00
4,920.00	14.95	145.22	4,919.06	-8.84	6.14	9.46	18.01	18.01	0.00
4,950.00	20.35	145.22	4,947.64	-16.31	11.33	17.46	18.01	18.01	0.00
4,980.00	25.75	145.22	4,975.23	-25.95	18.03	27.78	18.01	18.01	0.00
5,010.00	31.16	145.22	5,001.60	-37.69	26.18	40.35	18.01	18.01	0.00
5,040.00	36.56	145.22	5,026.50	-51.41	35.71	55.03	18.01	18.01	0.00
5,070.00	41.96	145.22	5,049.72	-67.00	46.54	71.72	18.01	18.01	0.00
5,100.00	47.36	145.22	5,071.05	-84.31	58.56	90.25	18.01	18.01	0.00
5,130.00	52.77	145.22	5,090.30	-103.20	71.68	110.47	18.01	18.01	0.00
5,160.00	58.17	145.22	5,107.30	-123.49	85.77	132.19	18.01	18.01	0.00
5,190.00	63.57	145.22	5,121.90	-145.00	100.72	155.22	18.01	18.01	0.00
5,220.00	68.97	145.22	5,133.97	-167.55	116.38	179.36	18.01	18.01	0.00
5,250.00	74.38	145.22	5,143.40	-190.93	132.62	204.39	18.01	18.01	0.00
5,274.68	78.82	145.22	5,149.12	-210.65	146.31	225.49	18.01	18.01	0.00
Build and Turn 18.06°/100' :: TFO 73.15									
5,280.00	79.10	146.15	5,150.13	-214.96	149.26	230.10	18.08	5.27	17.62
5,310.00	80.73	151.40	5,155.39	-240.21	164.56	256.89	18.06	5.43	17.50
5,340.00	82.44	156.60	5,159.78	-266.87	177.56	284.82	18.06	5.68	17.33
5,370.00	84.20	161.76	5,163.28	-294.71	188.14	313.66	18.06	5.89	17.19
5,400.00	86.01	166.88	5,165.84	-323.48	196.21	343.14	18.06	6.04	17.08
5,430.00	87.86	171.99	5,167.44	-352.92	201.70	373.01	18.06	6.15	17.01
5,460.00	89.72	177.08	5,168.08	-382.77	204.56	402.99	18.06	6.20	16.97
5,477.24	90.79	180.00	5,168.00	-400.00	205.00	420.16	18.06	6.21	16.96
EOC HOLD 90.79° INC :: 180.00° AZI									
5,490.00	90.79	180.00	5,167.82	-412.76	205.00	432.84	0.00	0.00	0.00
5,520.00	90.79	180.00	5,167.41	-442.75	205.00	462.66	0.00	0.00	0.00
5,550.00	90.79	180.00	5,167.00	-472.75	205.00	492.47	0.00	0.00	0.00
5,580.00	90.79	180.00	5,166.58	-502.75	205.00	522.29	0.00	0.00	0.00
5,610.00	90.79	180.00	5,166.17	-532.75	205.00	552.10	0.00	0.00	0.00
5,640.00	90.79	180.00	5,165.76	-562.74	205.00	581.91	0.00	0.00	0.00
5,670.00	90.79	180.00	5,165.34	-592.74	205.00	611.73	0.00	0.00	0.00
5,700.00	90.79	180.00	5,164.93	-622.74	205.00	641.54	0.00	0.00	0.00
5,730.00	90.79	180.00	5,164.51	-652.73	205.00	671.36	0.00	0.00	0.00
5,760.00	90.79	180.00	5,164.10	-682.73	205.00	701.17	0.00	0.00	0.00
5,790.00	90.79	180.00	5,163.69	-712.73	205.00	730.99	0.00	0.00	0.00
5,820.00	90.79	180.00	5,163.27	-742.73	205.00	760.80	0.00	0.00	0.00
5,850.00	90.79	180.00	5,162.86	-772.72	205.00	790.61	0.00	0.00	0.00
5,880.00	90.79	180.00	5,162.44	-802.72	205.00	820.43	0.00	0.00	0.00
5,910.00	90.79	180.00	5,162.03	-832.72	205.00	850.24	0.00	0.00	0.00
5,940.00	90.79	180.00	5,161.62	-862.71	205.00	880.06	0.00	0.00	0.00
5,970.00	90.79	180.00	5,161.20	-892.71	205.00	909.87	0.00	0.00	0.00
6,000.00	90.79	180.00	5,160.79	-922.71	205.00	939.69	0.00	0.00	0.00
6,030.00	90.79	180.00	5,160.37	-952.71	205.00	969.50	0.00	0.00	0.00
6,060.00	90.79	180.00	5,159.96	-982.70	205.00	999.31	0.00	0.00	0.00
6,090.00	90.79	180.00	5,159.55	-1,012.70	205.00	1,029.13	0.00	0.00	0.00
6,120.00	90.79	180.00	5,159.13	-1,042.70	205.00	1,058.94	0.00	0.00	0.00
6,150.00	90.79	180.00	5,158.72	-1,072.69	205.00	1,088.76	0.00	0.00	0.00
6,180.00	90.79	180.00	5,158.30	-1,102.69	205.00	1,118.57	0.00	0.00	0.00
6,210.00	90.79	180.00	5,157.89	-1,132.69	205.00	1,148.39	0.00	0.00	0.00
6,240.00	90.79	180.00	5,157.47	-1,162.69	205.00	1,178.20	0.00	0.00	0.00

Black Viper Energy

Planning Report

Database: EDM 2003.14 Server Db
 Company: Nearburg Producing Co.
 Project: Eddy County, NM.
 Site: Gerlack 32 Fee #1H
 Well: Gerlack 32 Fee #1H
 Wellbore: Lateral #1
 Design: Plan #1

Local Co-ordinate Reference: Well Gerlack 32 Fee #1H
 TVD Reference: WELL @ 2938.00ft (Original Well Elev)
 MD Reference: WELL @ 2938.00ft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

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)
6,270.00	90.79	180.00	5,157.06	-1,192.68	205.00	1,208.01	0.00	0.00	0.00
6,300.00	90.79	180.00	5,158.65	-1,222.68	205.00	1,237.83	0.00	0.00	0.00
6,330.00	90.79	180.00	5,158.23	-1,252.68	205.00	1,267.84	0.00	0.00	0.00
6,360.00	90.79	180.00	5,155.82	-1,282.67	205.00	1,297.46	0.00	0.00	0.00
6,390.00	90.79	180.00	5,155.40	-1,312.67	205.00	1,327.27	0.00	0.00	0.00
6,420.00	90.79	180.00	5,154.99	-1,342.67	205.00	1,357.09	0.00	0.00	0.00
6,450.00	90.79	180.00	5,154.57	-1,372.67	205.00	1,386.90	0.00	0.00	0.00
6,480.00	90.79	180.00	5,154.16	-1,402.66	205.00	1,416.71	0.00	0.00	0.00
6,510.00	90.79	180.00	5,153.74	-1,432.66	205.00	1,446.53	0.00	0.00	0.00
6,540.00	90.79	180.00	5,153.33	-1,462.66	205.00	1,476.34	0.00	0.00	0.00
6,570.00	90.79	180.00	5,152.91	-1,492.65	205.00	1,506.16	0.00	0.00	0.00
6,600.00	90.79	180.00	5,152.50	-1,522.65	205.00	1,535.97	0.00	0.00	0.00
6,630.00	90.79	180.00	5,152.08	-1,552.65	205.00	1,565.78	0.00	0.00	0.00
6,660.00	90.79	180.00	5,151.67	-1,582.65	205.00	1,595.60	0.00	0.00	0.00
6,690.00	90.79	180.00	5,151.26	-1,612.64	205.00	1,625.41	0.00	0.00	0.00
6,720.00	90.79	180.00	5,150.84	-1,642.64	205.00	1,655.23	0.00	0.00	0.00
6,750.00	90.79	180.00	5,150.43	-1,672.64	205.00	1,685.04	0.00	0.00	0.00
6,780.00	90.79	180.00	5,150.01	-1,702.63	205.00	1,714.86	0.00	0.00	0.00
6,810.00	90.79	180.00	5,149.60	-1,732.63	205.00	1,744.67	0.00	0.00	0.00
6,840.00	90.79	180.00	5,149.18	-1,762.63	205.00	1,774.48	0.00	0.00	0.00
6,870.00	90.79	180.00	5,148.77	-1,792.63	205.00	1,804.30	0.00	0.00	0.00
6,900.00	90.79	180.00	5,148.35	-1,822.62	205.00	1,834.11	0.00	0.00	0.00
6,925.38	90.79	180.00	5,148.00	-1,848.00	205.00	1,859.34	0.00	0.00	0.00

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
HL[G32F#1H]	0.00	0.00	0.00	0.00	0.00	429,251.70	601,389.10	32° 10' 46.931 N	104° 0' 20.268 W
- plan misses by 4837.00ft at 4837.00ft MD (4837.00 TVD, 0.00 N, 0.00 E)									
- Rectangle (sides W1,980.00 H1,980.00 D0.00)									
PP#1[G32F#1H]	0.00	0.00	5,168.00	-400.00	205.00	428,851.70	601,594.10	32° 10' 42.966 N	104° 0' 17.897 W
- plan hits target									
- Point									
LL[G32F#1H]	0.00	0.00	0.00	0.00	0.00	429,251.70	601,389.10	32° 10' 46.931 N	104° 0' 20.268 W
- plan misses by 4837.00ft at 4837.00ft MD (4837.00 TVD, 0.00 N, 0.00 E)									
- Rectangle (sides W2,640.00 H2,640.00 D0.00)									
PBHL#1[G32F#1H]	0.00	0.00	5,148.00	-1,848.00	205.00	427,403.70	601,594.10	32° 10' 28.637 N	104° 0' 17.948 W
- plan hits target									
- Point									

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	+E/-W (ft)	Comment
4,837.00	4,837.00	0.00	0.00	KOP Build and Turn 18.01°/100' :: TFO 145.22
5,274.68	5,149.12	-210.65	146.31	Build and Turn 18.06°/100' :: TFO 73.15
5,477.24	5,168.00	-400.00	205.00	EOC HOLD 90.79° INC · 180.00° AZI

Gerlack 32 Fee #1H Lateral #1 Plan #1 Report 6-19-08.txt
Nearburg Producing Co.
Gerlack 32 Fee #1H - Plan #1

Eddy County, NM.
Gerlack 32 Fee #1H

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
4837.00	0.000	0.000	4837.00	0.00 N	0.00 E	0.00	0.00
4840.00	0.540	145.217	4840.00	0.01 S	0.01 E	0.01	18.01
4850.00	2.341	145.217	4850.00	0.22 S	0.15 E	0.23	18.01
4860.00	4.142	145.217	4859.98	0.68 S	0.47 E	0.73	18.01
4870.00	5.943	145.217	4869.94	1.40 S	0.98 E	1.50	18.01
4880.00	7.744	145.217	4879.87	2.38 S	1.66 E	2.55	18.01
4890.00	9.545	145.217	4889.76	3.62 S	2.51 E	3.87	18.01
4900.00	11.346	145.217	4899.59	5.11 S	3.55 E	5.47	18.01
4910.00	13.147	145.217	4909.36	6.85 S	4.76 E	7.33	18.01
4920.00	14.947	145.217	4919.06	8.84 S	6.14 E	9.46	18.01
4930.00	16.748	145.217	4928.68	11.08 S	7.70 E	11.87	18.01
4940.00	18.549	145.217	4938.21	13.57 S	9.43 E	14.53	18.01
4950.00	20.350	145.217	4947.64	16.31 S	11.33 E	17.46	18.01
4960.00	22.151	145.217	4956.96	19.29 S	13.40 E	20.65	18.01
4970.00	23.952	145.217	4966.16	22.50 S	15.63 E	24.09	18.01
4980.00	25.753	145.217	4975.23	25.95 S	18.03 E	27.78	18.01
4990.00	27.554	145.217	4984.17	29.64 S	20.59 E	31.73	18.01
5000.00	29.355	145.217	4992.96	33.55 S	23.30 E	35.92	18.01
5010.00	31.156	145.217	5001.60	37.69 S	26.18 E	40.35	18.01
5020.00	32.956	145.217	5010.07	42.05 S	29.21 E	45.01	18.01
5030.00	34.757	145.217	5018.38	46.62 S	32.38 E	49.91	18.01
5040.00	36.558	145.217	5026.50	51.41 S	35.71 E	55.03	18.01
5050.00	38.359	145.217	5034.44	56.41 S	39.18 E	60.38	18.01
5060.00	40.160	145.217	5042.18	61.60 S	42.79 E	65.95	18.01
5070.00	41.961	145.217	5049.72	67.00 S	46.54 E	71.72	18.01
5080.00	43.762	145.217	5057.05	72.58 S	50.42 E	77.70	18.01
5090.00	45.563	145.217	5064.17	78.36 S	54.43 E	83.88	18.01
5100.00	47.364	145.217	5071.05	84.31 S	58.56 E	90.25	18.01
5110.00	49.165	145.217	5077.71	90.44 S	62.82 E	96.81	18.01
5120.00	50.965	145.217	5084.13	96.74 S	67.19 E	103.56	18.01
5130.00	52.766	145.217	5090.30	103.20 S	71.68 E	110.47	18.01
5140.00	54.567	145.217	5096.23	109.81 S	76.27 E	117.55	18.01
5150.00	56.368	145.217	5101.90	116.58 S	80.97 E	124.80	18.01
5160.00	58.169	145.217	5107.30	123.49 S	85.77 E	132.19	18.01
5170.00	59.970	145.217	5112.44	130.53 S	90.67 E	139.73	18.01
5180.00	61.771	145.217	5117.31	137.71 S	95.65 E	147.41	18.01
5190.00	63.572	145.217	5121.90	145.00 S	100.72 E	155.22	18.01
5200.00	65.373	145.217	5126.21	152.41 S	105.86 E	163.16	18.01
5210.00	67.174	145.217	5130.23	159.93 S	111.09 E	171.21	18.01
5220.00	68.974	145.217	5133.97	167.55 S	116.38 E	179.36	18.01
5230.00	70.775	145.217	5137.41	175.26 S	121.74 E	187.62	18.01
5240.00	72.576	145.217	5140.55	183.06 S	127.15 E	195.96	18.01
5250.00	74.377	145.217	5143.40	190.93 S	132.62 E	204.39	18.01
5260.00	76.178	145.217	5145.94	198.88 S	138.14 E	212.89	18.01
5270.00	77.979	145.217	5148.17	206.88 S	143.70 E	221.46	18.01
5274.68	78.821	145.217	5149.11	210.64 S	146.31 E	225.49	18.01
5280.00	79.101	146.154	5150.13	214.96 S	149.26 E	230.10	18.06
5290.00	79.635	147.909	5151.98	223.20 S	154.60 E	238.89	18.06
5300.00	80.178	149.659	5153.73	231.62 S	159.71 E	247.82	18.06
5310.00	80.730	151.403	5155.39	240.21 S	164.56 E	256.89	18.06
5320.00	81.291	153.141	5156.95	248.95 S	169.15 E	266.08	18.06
5330.00	81.860	154.874	5158.42	257.84 S	173.49 E	275.40	18.06
5340.00	82.435	156.602	5159.78	266.87 S	177.56 E	284.82	18.06
5350.00	83.018	158.325	5161.05	276.04 S	181.36 E	294.35	18.06
5360.00	83.607	160.044	5162.21	285.32 S	184.89 E	303.96	18.06
5370.00	84.201	161.759	5163.28	294.71 S	188.14 E	313.66	18.06
5380.00	84.801	163.471	5164.24	304.21 S	191.12 E	323.43	18.06
5390.00	85.405	165.179	5165.09	313.81 S	193.81 E	333.26	18.06
5400.00	86.014	166.884	5165.84	323.48 S	196.21 E	343.14	18.06
5410.00	86.626	168.587	5166.48	333.23 S	198.33 E	353.07	18.06
5420.00	87.240	170.287	5167.01	343.05 S	200.16 E	363.03	18.06
5430.00	87.858	171.986	5167.44	352.92 S	201.70 E	373.01	18.06
5440.00	88.477	173.684	5167.76	362.84 S	202.95 E	383.00	18.06
5450.00	89.097	175.380	5167.97	372.79 S	203.90 E	393.00	18.06

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5460.00	89.719	177.076	5168.08	382.77	S	204.56	E	402.99	18.06
5470.00	90.340	178.772	5168.07	392.76	S	204.92	E	412.96	18.06
5477.24	90.790	180.000	5168.00	400.00	S	205.00	E	420.16	18.06
5480.00	90.790	180.000	5167.96	402.76	S	205.00	E	422.91	0.00
5490.00	90.790	180.000	5167.82	412.76	S	205.00	E	432.84	0.00
5500.00	90.790	180.000	5167.69	422.76	S	205.00	E	442.78	0.00
5510.00	90.790	180.000	5167.55	432.76	S	205.00	E	452.72	0.00
5520.00	90.790	180.000	5167.41	442.75	S	205.00	E	462.66	0.00
5530.00	90.790	180.000	5167.27	452.75	S	205.00	E	472.60	0.00
5540.00	90.790	180.000	5167.13	462.75	S	205.00	E	482.53	0.00
5550.00	90.790	180.000	5167.00	472.75	S	205.00	E	492.47	0.00
5560.00	90.790	180.000	5166.86	482.75	S	205.00	E	502.41	0.00
5570.00	90.790	180.000	5166.72	492.75	S	205.00	E	512.35	0.00
5580.00	90.790	180.000	5166.58	502.75	S	205.00	E	522.29	0.00
5590.00	90.790	180.000	5166.45	512.75	S	205.00	E	532.22	0.00
5600.00	90.790	180.000	5166.31	522.75	S	205.00	E	542.16	0.00
5610.00	90.790	180.000	5166.17	532.75	S	205.00	E	552.10	0.00
5620.00	90.790	180.000	5166.03	542.75	S	205.00	E	562.04	0.00
5630.00	90.790	180.000	5165.89	552.74	S	205.00	E	571.98	0.00
5640.00	90.790	180.000	5165.76	562.74	S	205.00	E	581.91	0.00
5650.00	90.790	180.000	5165.62	572.74	S	205.00	E	591.85	0.00
5660.00	90.790	180.000	5165.48	582.74	S	205.00	E	601.79	0.00
5670.00	90.790	180.000	5165.34	592.74	S	205.00	E	611.73	0.00
5680.00	90.790	180.000	5165.20	602.74	S	205.00	E	621.67	0.00
5690.00	90.790	180.000	5165.07	612.74	S	205.00	E	631.60	0.00
5700.00	90.790	180.000	5164.93	622.74	S	205.00	E	641.54	0.00
5710.00	90.790	180.000	5164.79	632.74	S	205.00	E	651.48	0.00
5720.00	90.790	180.000	5164.65	642.74	S	205.00	E	661.42	0.00
5730.00	90.790	180.000	5164.51	652.73	S	205.00	E	671.36	0.00
5740.00	90.790	180.000	5164.38	662.73	S	205.00	E	681.30	0.00
5750.00	90.790	180.000	5164.24	672.73	S	205.00	E	691.23	0.00
5760.00	90.790	180.000	5164.10	682.73	S	205.00	E	701.17	0.00
5770.00	90.790	180.000	5163.96	692.73	S	205.00	E	711.11	0.00
5780.00	90.790	180.000	5163.82	702.73	S	205.00	E	721.05	0.00
5790.00	90.790	180.000	5163.69	712.73	S	205.00	E	730.99	0.00
5800.00	90.791	180.000	5163.55	722.73	S	205.00	E	740.92	0.00
5810.00	90.791	180.000	5163.41	732.73	S	205.00	E	750.86	0.00
5820.00	90.791	180.000	5163.27	742.73	S	205.00	E	760.80	0.00
5830.00	90.791	180.000	5163.13	752.73	S	205.00	E	770.74	0.00
5840.00	90.791	180.000	5163.00	762.72	S	205.00	E	780.68	0.00
5850.00	90.791	180.000	5162.86	772.72	S	205.00	E	790.61	0.00
5860.00	90.791	180.000	5162.72	782.72	S	205.00	E	800.55	0.00
5870.00	90.791	180.000	5162.58	792.72	S	205.00	E	810.49	0.00
5880.00	90.791	180.000	5162.44	802.72	S	205.00	E	820.43	0.00
5890.00	90.791	180.000	5162.31	812.72	S	205.00	E	830.37	0.00
5900.00	90.791	180.000	5162.17	822.72	S	205.00	E	840.30	0.00
5910.00	90.791	180.000	5162.03	832.72	S	205.00	E	850.24	0.00
5920.00	90.791	180.000	5161.89	842.72	S	205.00	E	860.18	0.00
5930.00	90.791	180.000	5161.75	852.72	S	205.00	E	870.12	0.00
5940.00	90.791	180.000	5161.62	862.71	S	205.00	E	880.06	0.00
5950.00	90.791	180.000	5161.48	872.71	S	205.00	E	890.00	0.00
5960.00	90.791	180.000	5161.34	882.71	S	205.00	E	899.93	0.00
5970.00	90.791	180.000	5161.20	892.71	S	205.00	E	909.87	0.00
5980.00	90.791	180.000	5161.06	902.71	S	205.00	E	919.81	0.00
5990.00	90.791	180.000	5160.93	912.71	S	205.00	E	929.75	0.00
6000.00	90.791	180.000	5160.79	922.71	S	205.00	E	939.69	0.00
6010.00	90.791	180.000	5160.65	932.71	S	205.00	E	949.62	0.00
6020.00	90.791	180.000	5160.51	942.71	S	205.00	E	959.56	0.00
6030.00	90.791	180.000	5160.37	952.71	S	205.00	E	969.50	0.00
6040.00	90.791	180.000	5160.24	962.71	S	205.00	E	979.44	0.00
6050.00	90.791	180.000	5160.10	972.70	S	205.00	E	989.38	0.00
6060.00	90.791	180.000	5159.96	982.70	S	205.00	E	999.31	0.00
6070.00	90.791	180.000	5159.82	992.70	S	205.00	E	1009.25	0.00
6080.00	90.791	180.000	5159.68	1002.70	S	205.00	E	1019.19	0.00
6090.00	90.791	180.000	5159.55	1012.70	S	205.00	E	1029.13	0.00
6100.00	90.791	180.000	5159.41	1022.70	S	205.00	E	1039.07	0.00
6110.00	90.791	180.000	5159.27	1032.70	S	205.00	E	1049.00	0.00
6120.00	90.791	180.000	5159.13	1042.70	S	205.00	E	1058.94	0.00
6130.00	90.791	180.000	5158.99	1052.70	S	205.00	E	1068.88	0.00
6140.00	90.791	180.000	5158.86	1062.70	S	205.00	E	1078.82	0.00
6150.00	90.791	180.000	5158.72	1072.69	S	205.00	E	1088.76	0.00
6160.00	90.791	180.000	5158.58	1082.69	S	205.00	E	1098.69	0.00
6170.00	90.791	180.000	5158.44	1092.69	S	205.00	E	1108.63	0.00
6180.00	90.791	180.000	5158.30	1102.69	S	205.00	E	1118.57	0.00

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6190.00	90.791	180.000	5158.16	1112.69	S	205.00	E 1128.51 0.00
6200.00	90.791	180.000	5158.03	1122.69	S	205.00	E 1138.45 0.00
6210.00	90.791	180.000	5157.89	1132.69	S	205.00	E 1148.39 0.00
6220.00	90.791	180.000	5157.75	1142.69	S	205.00	E 1158.32 0.00
6230.00	90.791	180.000	5157.61	1152.69	S	205.00	E 1168.26 0.00
6240.00	90.791	180.000	5157.47	1162.69	S	205.00	E 1178.20 0.00
6250.00	90.791	180.000	5157.34	1172.69	S	205.00	E 1188.14 0.00
6260.00	90.791	180.000	5157.20	1182.68	S	205.00	E 1198.08 0.00
6270.00	90.791	180.000	5157.06	1192.68	S	205.00	E 1208.01 0.00
6280.00	90.791	180.000	5156.92	1202.68	S	205.00	E 1217.95 0.00
6290.00	90.791	180.000	5156.78	1212.68	S	205.00	E 1227.89 0.00
6300.00	90.792	180.000	5156.65	1222.68	S	205.00	E 1237.83 0.00
6310.00	90.792	180.000	5156.51	1232.68	S	205.00	E 1247.77 0.00
6320.00	90.792	180.000	5156.37	1242.68	S	205.00	E 1257.70 0.00
6330.00	90.792	180.000	5156.23	1252.68	S	205.00	E 1267.64 0.00
6340.00	90.792	180.000	5156.09	1262.68	S	205.00	E 1277.58 0.00
6350.00	90.792	180.000	5155.95	1272.68	S	205.00	E 1287.52 0.00
6360.00	90.792	180.000	5155.82	1282.67	S	205.00	E 1297.46 0.00
6370.00	90.792	180.000	5155.68	1292.67	S	205.00	E 1307.39 0.00
6380.00	90.792	180.000	5155.54	1302.67	S	205.00	E 1317.33 0.00
6390.00	90.792	180.000	5155.40	1312.67	S	205.00	E 1327.27 0.00
6400.00	90.792	180.000	5155.26	1322.67	S	205.00	E 1337.21 0.00
6410.00	90.792	180.000	5155.13	1332.67	S	205.00	E 1347.15 0.00
6420.00	90.792	180.000	5154.99	1342.67	S	205.00	E 1357.09 0.00
6430.00	90.792	180.000	5154.85	1352.67	S	205.00	E 1367.02 0.00
6440.00	90.792	180.000	5154.71	1362.67	S	205.00	E 1376.96 0.00
6450.00	90.792	180.000	5154.57	1372.67	S	205.00	E 1386.90 0.00
6460.00	90.792	180.000	5154.43	1382.66	S	205.00	E 1396.84 0.00
6470.00	90.792	180.000	5154.30	1392.66	S	205.00	E 1406.78 0.00
6480.00	90.792	180.000	5154.16	1402.66	S	205.00	E 1416.71 0.00
6490.00	90.792	180.000	5154.02	1412.66	S	205.00	E 1426.65 0.00
6500.00	90.792	180.000	5153.88	1422.66	S	205.00	E 1436.59 0.00
6510.00	90.792	180.000	5153.74	1432.66	S	205.00	E 1446.53 0.00
6520.00	90.792	180.000	5153.61	1442.66	S	205.00	E 1456.47 0.00
6530.00	90.792	180.000	5153.47	1452.66	S	205.00	E 1466.40 0.00
6540.00	90.792	180.000	5153.33	1462.66	S	205.00	E 1476.34 0.00
6550.00	90.792	180.000	5153.19	1472.66	S	205.00	E 1486.28 0.00
6560.00	90.792	180.000	5153.05	1482.66	S	205.00	E 1496.22 0.00
6570.00	90.792	180.000	5152.91	1492.65	S	205.00	E 1506.16 0.00
6580.00	90.792	180.000	5152.78	1502.65	S	205.00	E 1516.09 0.00
6590.00	90.792	180.000	5152.64	1512.65	S	205.00	E 1526.03 0.00
6600.00	90.792	180.000	5152.50	1522.65	S	205.00	E 1535.97 0.00
6610.00	90.792	180.000	5152.36	1532.65	S	205.00	E 1545.91 0.00
6620.00	90.792	180.000	5152.22	1542.65	S	205.00	E 1555.85 0.00
6630.00	90.792	180.000	5152.08	1552.65	S	205.00	E 1565.78 0.00
6640.00	90.792	180.000	5151.95	1562.65	S	205.00	E 1575.72 0.00
6650.00	90.792	180.000	5151.81	1572.65	S	205.00	E 1585.66 0.00
6660.00	90.792	180.000	5151.67	1582.65	S	205.00	E 1595.60 0.00
6670.00	90.792	180.000	5151.53	1592.64	S	205.00	E 1605.54 0.00
6680.00	90.792	180.000	5151.39	1602.64	S	205.00	E 1615.48 0.00
6690.00	90.792	180.000	5151.26	1612.64	S	205.00	E 1625.41 0.00
6700.00	90.792	180.000	5151.12	1622.64	S	205.00	E 1635.35 0.00
6710.00	90.792	180.000	5150.98	1632.64	S	205.00	E 1645.29 0.00
6720.00	90.792	180.000	5150.84	1642.64	S	205.00	E 1655.23 0.00
6730.00	90.792	180.000	5150.70	1652.64	S	205.00	E 1665.17 0.00
6740.00	90.792	180.000	5150.56	1662.64	S	205.00	E 1675.10 0.00
6750.00	90.792	180.000	5150.43	1672.64	S	205.00	E 1685.04 0.00
6760.00	90.792	180.000	5150.29	1682.64	S	205.00	E 1694.98 0.00
6770.00	90.792	180.000	5150.15	1692.64	S	205.00	E 1704.92 0.00
6780.00	90.792	180.000	5150.01	1702.63	S	205.00	E 1714.86 0.00
6790.00	90.792	180.000	5149.87	1712.63	S	205.00	E 1724.79 0.00
6800.00	90.792	180.000	5149.73	1722.63	S	205.00	E 1734.73 0.00
6810.00	90.792	180.000	5149.60	1732.63	S	205.00	E 1744.67 0.00
6820.00	90.792	180.000	5149.46	1742.63	S	205.00	E 1754.61 0.00
6830.00	90.792	180.000	5149.32	1752.63	S	205.00	E 1764.55 0.00
6840.00	90.792	180.000	5149.18	1762.63	S	205.00	E 1774.48 0.00
6850.00	90.792	180.000	5149.04	1772.63	S	205.00	E 1784.42 0.00
6860.00	90.792	180.000	5148.90	1782.63	S	205.00	E 1794.36 0.00
6870.00	90.792	180.000	5148.77	1792.63	S	205.00	E 1804.30 0.00
6880.00	90.792	180.000	5148.63	1802.62	S	205.00	E 1814.24 0.00
6890.00	90.792	180.000	5148.49	1812.62	S	205.00	E 1824.18 0.00
6900.00	90.793	180.000	5148.35	1822.62	S	205.00	E 1834.11 0.00
6910.00	90.793	180.000	5148.21	1832.62	S	205.00	E 1844.05 0.00
6920.00	90.793	180.000	5148.07	1842.62	S	205.00	E 1853.99 0.00

Gerlack 32 Fee #1H Lateral #1 Plan #1 Report 6-19-08.txt
6925.38 90.793 180.000 5148.00 1848.00 S 205.00 E 1859.34 0.00

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.

Vertical depths are relative to WELL. Northings and Eastings are relative to well.

The Dogleg Severity is in Degrees per 100 feet.

Vertical Section is from Slot and calculated along an Azimuth of 173.670° (Grid).

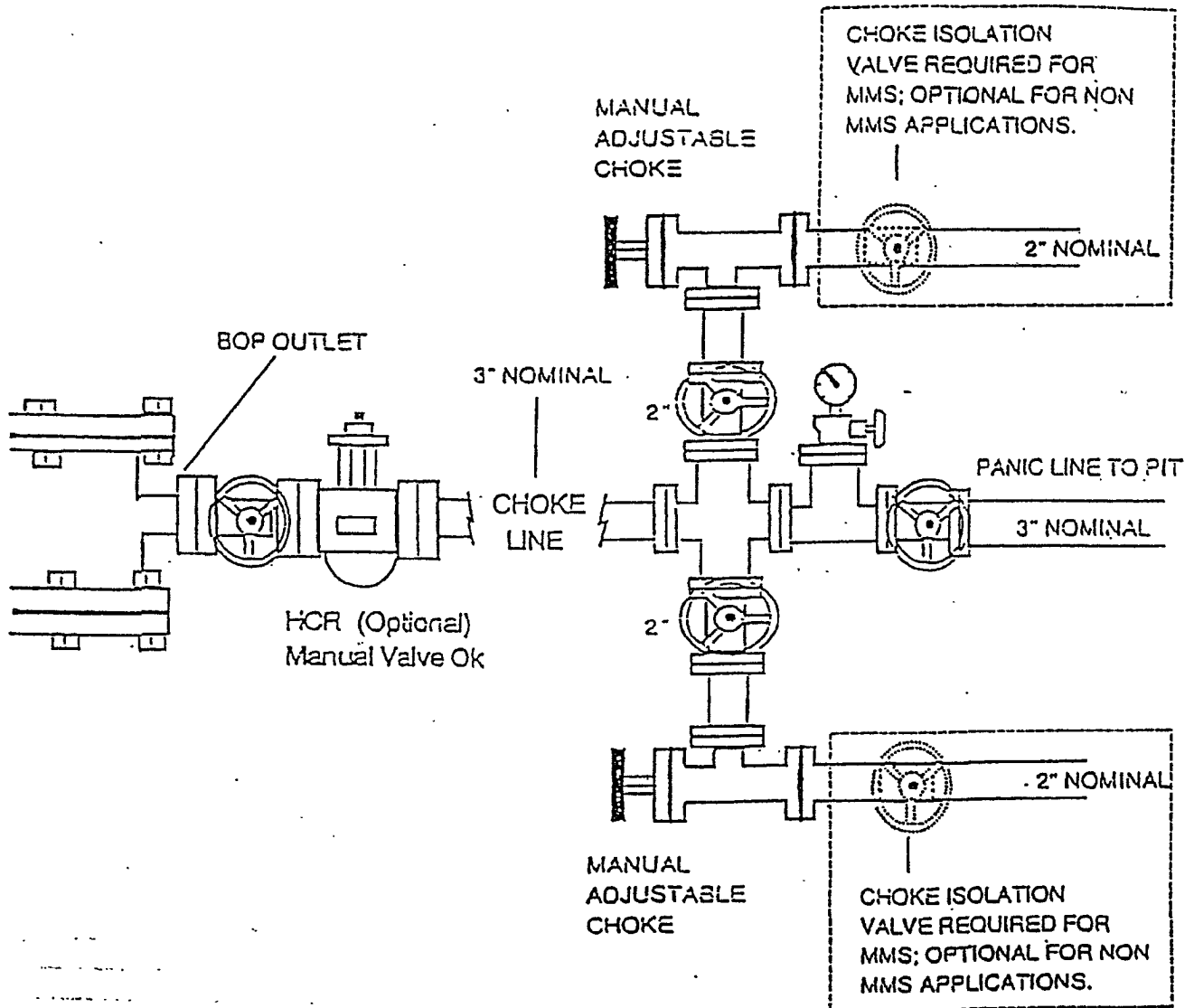
Coordinate System is NAD 1927 (NADCON CONUS) US State Plane 1927 (Exact solution), New Mexico East 3001.

Central meridian is -104.333°.

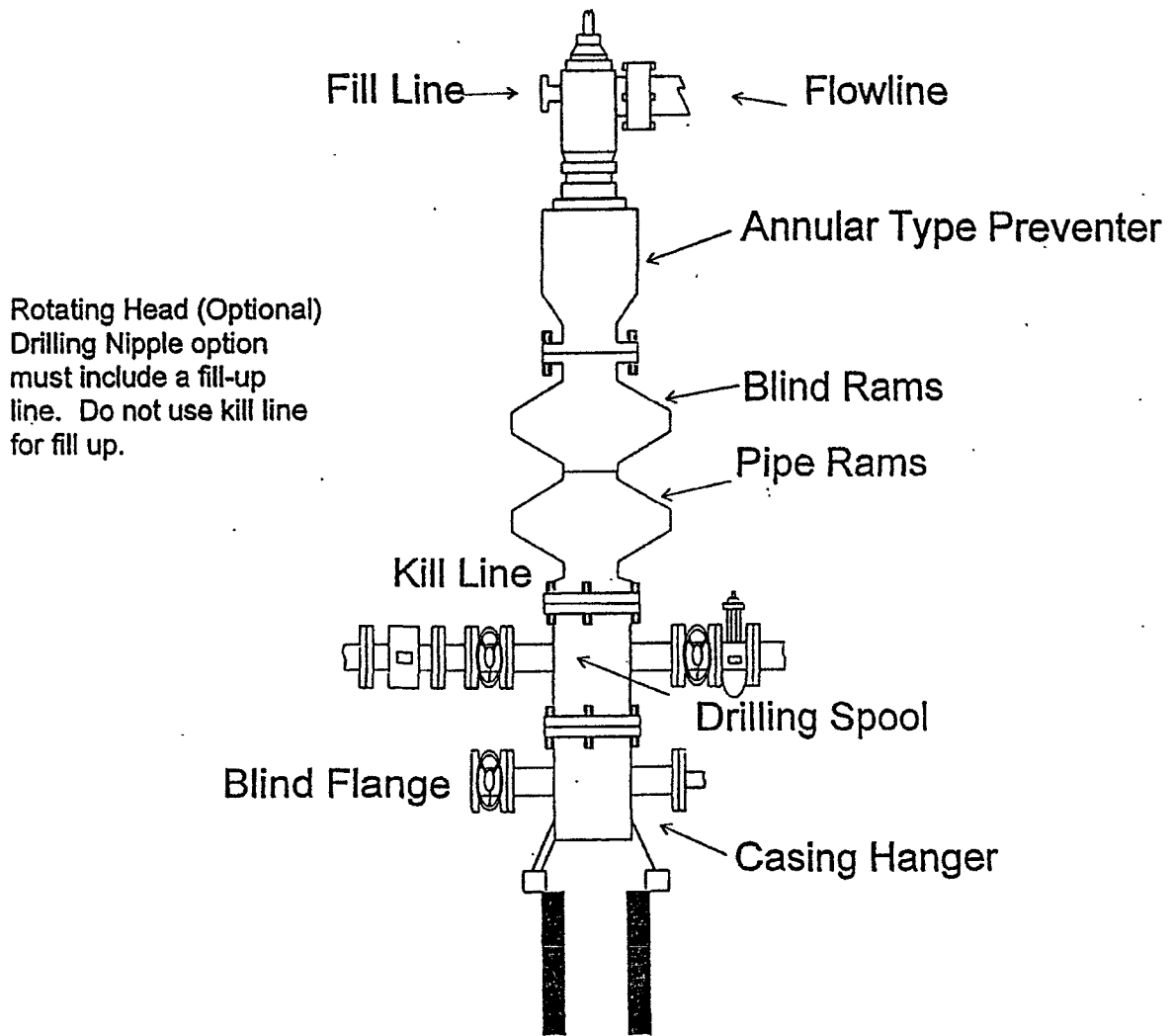
Grid Convergence at Surface is 0.175°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 6925.38ft., the Bottom Hole Displacement is 1859.34ft., in the Direction of 173.670° (Grid).

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2M AND 3M SERVICE



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900 Series