

State of New Mexico
Energy, Minerals & Natural Resources

Form C-101
May 27, 2004

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



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

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		SEP 28 2007 OCD-ARTESIA	² OGRID Number 015742
⁴ Property Code 15753	⁵ Property Name South Boyd 27	³ API Number 30-15-30869	
⁹ Proposed Pool 1 North Seven Rivers; Glorieta/ Yeso		⁶ Well No 10 H	
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
A	27	19S	25E		505	North	990	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
H	27	19S	25E		2310	North	990	East	Eddy

Additional Well Location

¹¹ Work Type Code Plugback	¹² Well Type Code 0	¹³ Cable/Rotary	¹⁴ Lease Type Code State	¹⁵ Ground Level Elevation 3439
¹⁶ Multiple N	¹⁷ Proposed Depth 8090	¹⁸ Formation Glorieta/ Yeso	¹⁹ Contractor Mesa	²⁰ Spud Date 10/15/07
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
14-3/4	9-5/8	36 & 48	1101	1200	NA
8-3/4	7	23# & 26# & 29#	8175	275	NA
All csg is existing					

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.

Propose to plugback and horizontal drill the well to evaluate the Glorita/ Yeso 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: <i>Sarah Jordan</i>		OIL CONSERVATION DIVISION	
Printed name: Sarah Jordan			
Title: Production Analyst		Approved by: BRYAN G. ARANT	
E-mail Address: sjordan@nearburg.com		Title: DISTRICT II GEOLOGIST	
Date:	Phone: 432/686-8235 x 203	Approval Date: OCT 29 2007	Expiration Date: OCT 29 2008
		Conditions of Approval: Attached ☒	

Arrant, Bryan, EMNRD

Subject: FW: South Boyd 27 # 10H & B&B # 11H

For approval the the recompletion of the above note well, operator is to set 100' cement plugs across the following intervals:

Plugs across the the top of the Wolfcamp and Bone Spring formations.

6608-6508'
&
3838-3738'.

You may at your choice omit the cement plug from 5655-5555'.

Bryan G. Arrant

District II Geologist
New Mexico Oil Conservation Division
1310 West Grand Ave.
Artesia, NM 88210
505-748-1283 Ext. 103

From: Arrant, Bryan, EMNRD

Sent: Monday, October 01, 2007 9:47 AM

To: 'Sarah Jordan'

Subject: FW: South Boyd 27 # 10H & B&B # 11H

Hi Sarah,

I'm sorry, but I'll need additional information.

Please submit a before and after well bore diagram.

I see a "proposed and current" well bore diagrams in the well file, but this does not address you proposal for a Glorieta completion.

I need for you to show in detail (for example) the cement plugs, the proposed completion and cementing procedure, etc.

Also, I see in the well file a temperature survey was ran please submit those survey(s).

Thanks again!

Bryan G. Arrant

District II Geologist
New Mexico Oil Conservation Division
1301 West Grand Ave.
Artesia, NM 88210
505-748-1283 Ext. 103

From: Arrant, Bryan, EMNRD

Sent: Monday, October 01, 2007 9:29 AM

To: 'Sarah Jordan'

Subject: South Boyd 27 # 10H & B&B # 11H

Hi Sarah,

In order to further review/and or approve the above APDs, please submit amended C-102s and show the following information:

Note the penetration point of the Glorieta

10/29/2007

Outline the project area and producing area.

For more information on this matter, please read through NMOCD Rule 19.15.3.111.

Thanks,

Bryan G. Arrant

District II Geologist

New Mexico Oil Conservation Division

1301 West Grand Ave.

Artesia, NM 88210

505-748-1283 Ext. 103

CC: Well files

10/29/2007

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 Department

OCT 19 2007

OCD-ARTESIA

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 97565	Pool Name N. Seven River / Glorieta / Upo
Property Code	Property Name SOUTH BOYD 27	Well Number 10 H
OGRID No. 015742	Operator Name NEARBURG PRODUCING COMPANY	Elevation 3439'

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	19-S	25-E		505	NORTH	990	EAST	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
H	27	19-S	25-E		2310	NORTH	990	EAST	EDDY

Dedicated Acres 80	Joint or Infill	Consolidation Code	Order No.
-----------------------	-----------------	--------------------	-----------

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

BOTTOM HOLE Y=593872.8 N X=458918.6 E	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=595676.9 N X=458920.1 E LAT.=32.637547° N LONG.=104.466783° 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 unless 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: <i>[Date]</i> Printed Name: <i>[Name]</i> 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 31, 2007 Date Surveyed: <i>[Date]</i> JR Signature & Seal of Professional Surveyor: <i>[Signature]</i> Certificate No.: GARY EDSON 12841
--	---	--

CURRENT WELLBORE DIAGRAM

LEASE:	South Boyd 27	WELL:	10	FIELD:	Dagger Draw North	API:	30015308690000
LOC:	510' FNL and 990' FEL	SEC:	27	BLK:		PARS NO:	
SVY:	T19S, R25E	GL:	3,443'	CTY/ST	Eddy County, NM	SPUD:	12/19/1999
CURRENT STATUS:	Inactive (SI)	KB:	3,459'	DF:		TD DATE:	1/9/2000
						COMP. DATE:	2/15/2000

FRESH WATER
DEPTH:

HOLE SIZE: 14 3/4"
SURF CSG & SIZE: 9 5/8" 36 & 48# J55
SET @: 1,101'
SXS CMT: 1,200 sx
CIRC: yes 150 sx
TOC AT: surface
TOC BY:

COMMENTS:

*****GEOLOGY*****

TOPS OF ALL ZONES
PRODUCTIVE OF HYDRO-
CARBONS:

San Andres:
Glorieta: 2283'
Bone Springs: 3838'
Wolfcamp: 6608'
Canyon: 7745'

CURRENT PERFS:

7,748'-7,818'

SQUEEZE JOBS:

TBG: 2 7/8"
JTS: 0
SN: N
TAC: N
ROD SIZE N

PKR: N
TYPE:

OH ID:
COTD:
PBTD: 8,090'
TD: 8,175'

PBTD - 8,090'

squeeze perfs 7,755-57'
perfs 7,748-818'

HOLE SIZE: 8 3/4"
PROD. CSG & SIZE: 7" 23, 26, & 29# J55, N80, & S95
SET @: 8,175'
SXS CMT: 275 sx
CIRC: no
TOC AT: 7,780'
TOC BY: CBL

BY: MTJ
10/18/2007

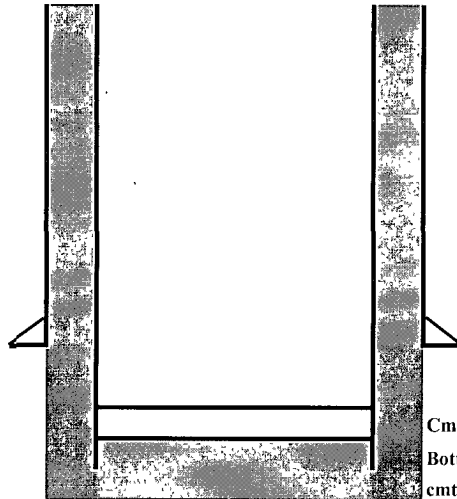
OPEN HOLE:

LINER:

CURRENT WELLBORE DIAGRAM

LEASE: South Boyd 27	WELL: 10	FIELD: Dagger Draw North	API: 30015308690000
LOC: 510' FNL and 990' FEL	SEC: 27	BLK:	PARS NO:
SVY: T19S, R25E	GL: 3,443'	CTY/ST: Eddy County, NM	SPUD: 12/19/1999
CURRENT STATUS: PB before Yeso	KB: 3,459'	DF:	TD DATE: 1/9/2000
			COMP. DATE: 2/15/2000

FRESH WATER
DEPTH:



HOLE SIZE: 14 3/4"
 SURF CSG & SIZE: 9 5/8" 36 & 48# J55
 SET @: 1,101'
 SXS CMT: 1,200 sx
 CIRC: yes 150 sx
 TOC AT: surface
 TOC BY:

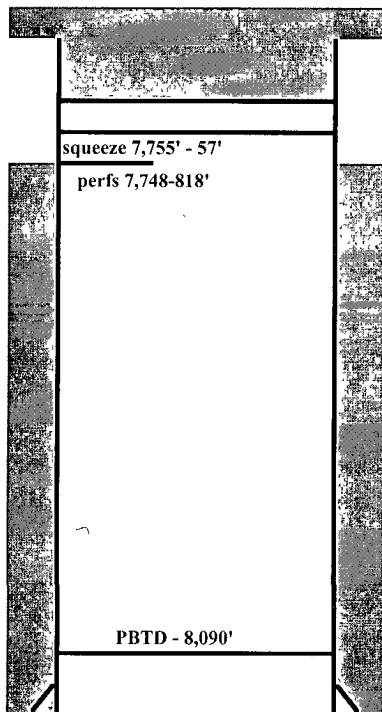
COMMENTS:

*****GEOLOGY*****

TOPS OF ALL ZONES
 PRODUCTIVE OF HYDRO-
 CARBONS:
 San Andres:
 Glorieta: 2283'
 Bone Springs: 3838'
 Wolfcamp: 6608'
 Canyon: 7745'

TBG: 2 7/8"
 JTS: 0
 SN: N
 TAC: N
 ROD SIZE N

PKR: N
 TYPE:



Top of 7" csg w/50' cmt in & above

CIBP @ 7,700' w/35' cmt

CURRENT PERFS:

7,748'-7,818'

SQUEEZE JOBS:

OH ID:
 COTD:
 PBTD: 8,090'
 TD: 8,175'

HOLE SIZE: 8 3/4"
 PROD. CSG & SIZE: 7" 23, 26, & 29# J55, N80, & S95
 SET @: 8,175'
 SXS CMT: 275 sx
 CIRC: no
 TOC AT: 7,780'
 TOC BY: CBL

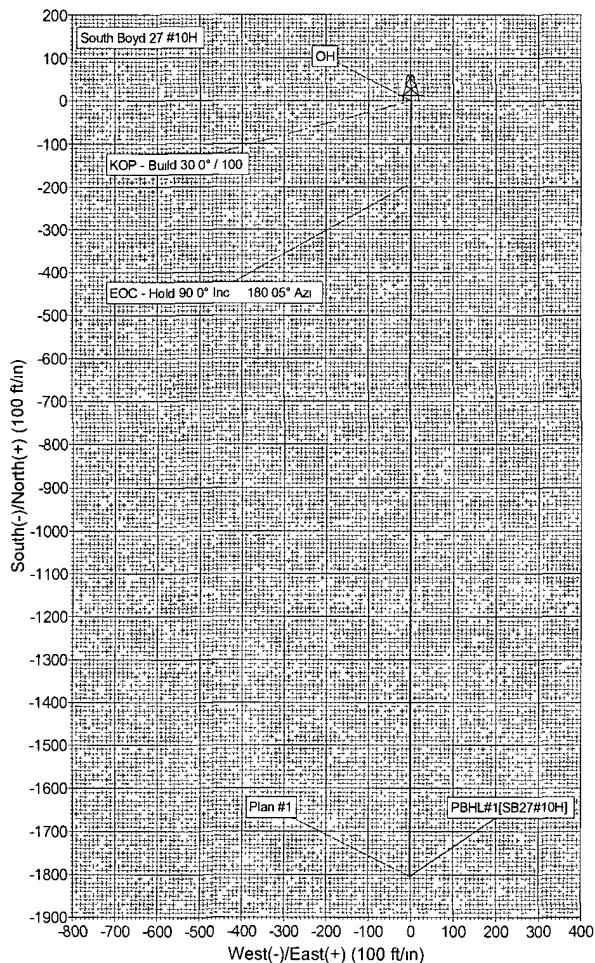
BY: MTJ
 10/18/2007

OPEN HOLE:

LINER:

NEARBURG PRODUCTION

Project: Eddy County, NM
Site: South Boyd 27 #10H
Well: South Boyd 27 #10H
Wellbore: Lateral #1
Plan: Plan #1 (South Boyd 27 #10H/Lateral #1)



ANNOTATIONS

TVD	MD	Annotation
2179 01	2179 01	KOP - Build 30 0° / 100
2370 00	2479 01	EOC - Hold 90 0° Inc 180 05° Azi

PROJECT DETAILS Eddy County, NM

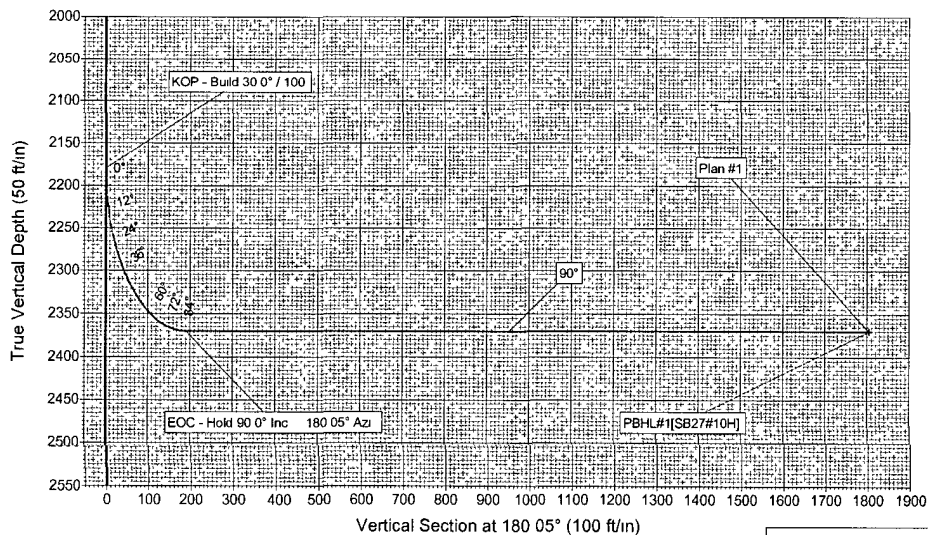
Geodetic System US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level



Azimuths to Grid North
True North: 0.07°
Magnetic North: 8.53°
Magnetic Field
Strength: 49155.9 nT
Dip Angle: 60.51°
Date: 9/20/2007
Model: IGRF2005.10

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	2179 00	0.00	0.00	2179 00	0.00	0.00	0.00	0.00	0.00	
2	2179 01	0.00	0.00	2179 01	0.00	0.00	0.00	0.00	0.00	
3	2479 01	90.00	180.05	2370 00	-190.99	-0.16	30.00	180.05	-190.98	
4	4092 13	90.00	180.05	2370 00	-1804.10	-1.50	0.00	0.00	-1804.04	PBHL#1[SB27#10H]



Plan: Plan #1 (South Boyd 27 #10H/Lateral #1)
Created By: L.D. Burton Date: September 20, 2007

Nearburg Producing Co.

Eddy County, NM.

South Boyd 27 #10H

South Boyd 27 #10H

Lateral #1

Plan: Plan #1

Standard Survey Report

12 October, 2007



Company
Wellbore
Wellbore Type:

Nearburg Production
South Boyd 27.#10H - Plan #1
Horizontal
Eddy County, New Mexico
South Boyd 27.#10H



County:
Well Name

Reference	Measured Depth (ft)	Incl	Azim	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
Tie In	2179.01	0	0	2179.01	0	0	0	0
KOP	2190	3.296	180.048	2189.99	-0.32	0	0.32	30
Build 30.0° / 100'	2200	6.296	180.048	2199.96	-1.15	0	1.15	30
	2210	9.296	180.048	2209.86	-2.51	0	2.51	30
	2220	12.296	180.048	2219.69	-4.38	0	4.38	30
	2230	15.296	180.048	2229.4	-6.77	-0.01	6.77	30
	2240	18.296	180.048	2238.97	-9.65	-0.01	9.65	30
	2250	21.296	180.048	2248.38	-13.04	-0.01	13.04	30
	2260	24.296	180.048	2257.59	-16.92	-0.01	16.92	30
	2270	27.296	180.048	2266.6	-21.27	-0.02	21.27	30
	2280	30.296	180.048	2275.36	-26.08	-0.02	26.08	30
	2290	33.296	180.048	2283.86	-31.35	-0.03	31.35	30
	2300	36.296	180.048	2292.07	-37.06	-0.03	37.06	30
	2310	39.296	180.048	2299.97	-43.18	-0.04	43.18	30
	2320	42.296	180.048	2307.54	-49.72	-0.04	49.72	30
	2330	45.296	180.048	2314.76	-56.64	-0.05	56.64	30
	2340	48.296	180.048	2321.6	-63.93	-0.05	63.93	30
	2350	51.296	180.048	2328.06	-71.56	-0.06	71.56	30
	2360	54.296	180.048	2334.1	-79.53	-0.07	79.53	30
	2370	57.296	180.048	2339.72	-87.8	-0.07	87.8	30
	2380	60.296	180.048	2344.9	-96.35	-0.08	96.35	30
	2390	63.296	180.048	2349.63	-105.16	-0.09	105.16	30
	2400	66.296	180.048	2353.89	-114.21	-0.09	114.21	30
	2410	69.296	180.048	2357.67	-123.46	-0.1	123.46	30
	2420	72.296	180.048	2360.95	-132.91	-0.11	132.91	30
	2430	75.296	180.048	2363.74	-142.51	-0.12	142.51	30
	2440	78.296	180.048	2366.03	-152.24	-0.13	152.24	30
	2450	81.296	180.048	2367.8	-162.08	-0.13	162.08	30
	2460	84.296	180.048	2369.05	-172	-0.14	172	30
	2470	87.296	180.048	2369.79	-181.98	-0.15	181.98	30
EOC	2479.01	90	180.048	2370	-190.99	-0.16	190.99	30
Hold 90.0° Inc.	2500	90	180.048	2370	-211.97	-0.18	211.97	0
100.05° Az.	2600	90	180.048	2370	-311.97	-0.26	311.97	0
	2700	90	180.048	2370	-411.97	-0.34	411.97	0
	2800	90	180.048	2370	-511.97	-0.43	511.97	0
	2900	90	180.048	2370	-611.97	-0.51	611.97	0
	3000	90	180.048	2370	-711.97	-0.59	711.97	0
	3100	90	180.048	2370	-811.97	-0.68	811.97	0
	3200	90	180.048	2370	-911.97	-0.76	911.97	0
	3300	90	180.048	2370	-1011.97	-0.84	1011.97	0
	3400	90	180.048	2370	-1111.97	-0.92	1111.97	0
	3500	90	180.048	2370	-1211.97	-1.01	1211.97	0
	3600	90	180.048	2370	-1311.97	-1.09	1311.97	0
	3700	90	180.048	2370	-1411.97	-1.17	1411.97	0
	3800	90	180.048	2370	-1511.97	-1.26	1511.97	0
	3900	90	180.048	2370	-1611.97	-1.34	1611.97	0
	4000	90	180.048	2370	-1711.97	-1.42	1711.97	0
	4092.13	90	180.048	2370	-1804.1	-1.5	1804.1	0
	4200	90	0.527	2370	1911.89	17.59	1911.97	0
	4300	90	0.527	2370	2011.89	18.51	2011.97	0
	4400	90	0.527	2370	2111.88	19.43	2111.97	0
	4500	90	0.527	2370	2211.88	20.35	2211.97	0
	4600	90	0.527	2370	2311.87	21.27	2311.97	0
	4700	90	0.527	2370	2411.87	22.19	2411.97	0
	4800	90	0.527	2370	2511.87	23.12	2511.97	0
	4900	90	0.527	2370	2611.86	24.04	2611.97	0
	5000	90	0.527	2370	2711.86	24.96	2711.97	0
TD	5102.65	90	0.527	2370	2814.5	25.9	2814.62	0

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 180.048° (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 -0.072°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 4092.13ft.,
the Bottom Hole Displacement is 1804.10ft., in the Direction of 180.048° (Grid).

Black Viper Energy

Survey Report



Company:	Nearburg Producing Co	Local Co-ordinate Reference:	Well South Boyd 27 #10H
Project:	Eddy County, NM.	TVD Reference:	WELL @ 3449 00ft (Original Well Elev)
Site:	South Boyd 27 #10H	MD Reference:	WELL @ 3449 00ft (Original Well Elev)
Well:	South Boyd 27 #10H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 2003 14 1.0 Server DB

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	South Boyd 27 #10H			
Site Position:		Northing:	595,676 90 ft	Latitude: 32° 38' 15.159 N
From:	Map	Easting:	458,920.10 ft	Longitude: 104° 28' 0.429 W
Position Uncertainty:	0 00 ft	Slot Radius:	"	Grid Convergence: -0 07 °

Well	South Boyd 27 #10H			
Well Position	+N/-S	0.00 ft	Northing: 595,676.90 ft	Latitude: 32° 38' 15.159 N
	+E/-W	0.00 ft	Easting: 458,920.10 ft	Longitude: 104° 28' 0.429 W
Position Uncertainty		0.00 ft	Wellhead Elevation: ft	Ground Level: 0 00 ft

Wellbore	Lateral #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	9/20/2007	8.46	60 51	49,156

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	2,179.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0 00	0.00	0 00	180 05

Survey Tool Program	Date 10/12/2007			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
2,179 00	4,092 13	Plan #1 (Lateral #1)	MWD	MWD - Standard

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)
2,179 01	0 00	0.00	2,179.01	0.00	0 00	0.00	0 00	0.00	0 00
KOP - Build 30.0° / 100									
2,190.00	3.30	180.05	2,189.99	-0.32	0.00	0.32	30 00	30.00	0.00
2,200 00	6 30	180.05	2,199.96	-1.15	0.00	1.15	30 00	30 00	0.00
2,210.00	9.30	180.05	2,209.86	-2.51	0.00	2.51	30 00	30.00	0.00
2,220 00	12.30	180.05	2,219.69	-4.38	0.00	4.38	30 00	30.00	0.00
2,230.00	15.30	180.05	2,229.40	-6.77	-0.01	6.77	30.00	30 00	0.00
2,240.00	18 30	180.05	2,238.97	-9.65	-0.01	9.65	30 00	30 00	0.00
2,250.00	21 30	180.05	2,248.38	-13.04	-0.01	13.04	30.00	30 00	0.00
2,260.00	24.30	180.05	2,257.59	-16.92	-0.01	16.92	30.00	30 00	0.00
2,270.00	27.30	180.05	2,266.60	-21.27	-0.02	21.27	30.00	30 00	0.00
2,280.00	30 30	180.05	2,275.36	-26.08	-0 02	26.08	30.00	30.00	0 00
2,290 00	33 30	180.05	2,283.86	-31.35	-0.03	31 35	30.00	30 00	0.00

Black Viper Energy

Survey Report



Company:	Nearburg Producing Co.	Local Co-ordinate Reference:	Well South Boyd 27 #10H
Project:	Eddy County, NM.	TVD Reference:	WELL @ 3449.00ft (Original Well Elev)
Site:	South Boyd 27 #10H	MD Reference:	WELL @ 3449.00ft (Original Well Elev)
Well:	South Boyd 27 #10H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 2003 14.1.0 Server DB

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)
2,300.00	36.30	180.05	2,292.07	-37.06	-0.03	37.06	30.00	30.00	0.00
2,310.00	39.30	180.05	2,299.97	-43.18	-0.04	43.18	30.00	30.00	0.00
2,320.00	42.30	180.05	2,307.54	-49.72	-0.04	49.72	30.00	30.00	0.00
2,330.00	45.30	180.05	2,314.76	-56.64	-0.05	56.64	30.00	30.00	0.00
2,340.00	48.30	180.05	2,321.60	-63.93	-0.05	63.93	30.00	30.00	0.00
2,350.00	51.30	180.05	2,328.06	-71.56	-0.06	71.56	30.00	30.00	0.00
2,360.00	54.30	180.05	2,334.10	-79.53	-0.07	79.53	30.00	30.00	0.00
2,370.00	57.30	180.05	2,339.72	-87.80	-0.07	87.80	30.00	30.00	0.00
2,380.00	60.30	180.05	2,344.90	-96.35	-0.08	96.35	30.00	30.00	0.00
2,390.00	63.30	180.05	2,349.63	-105.16	-0.09	105.16	30.00	30.00	0.00
2,400.00	66.30	180.05	2,353.89	-114.21	-0.09	114.21	30.00	30.00	0.00
2,410.00	69.30	180.05	2,357.67	-123.46	-0.10	123.46	30.00	30.00	0.00
2,420.00	72.30	180.05	2,360.95	-132.91	-0.11	132.91	30.00	30.00	0.00
2,430.00	75.30	180.05	2,363.74	-142.51	-0.12	142.51	30.00	30.00	0.00
2,440.00	78.30	180.05	2,366.03	-152.24	-0.13	152.24	30.00	30.00	0.00
2,450.00	81.30	180.05	2,367.80	-162.08	-0.13	162.08	30.00	30.00	0.00
2,460.00	84.30	180.05	2,369.05	-172.00	-0.14	172.00	30.00	30.00	0.00
2,470.00	87.30	180.05	2,369.79	-181.98	-0.15	181.98	30.00	30.00	0.00
2,479.01	90.00	180.05	2,370.00	-190.99	-0.16	190.99	30.00	30.00	0.00
EOC - Hold 90.0° Inc. :: 180.05° Azi.									
2,500.00	90.00	180.05	2,370.00	-211.97	-0.18	211.97	0.00	0.00	0.00
2,600.00	90.00	180.05	2,370.00	-311.97	-0.26	311.97	0.00	0.00	0.00
2,700.00	90.00	180.05	2,370.00	-411.97	-0.34	411.97	0.00	0.00	0.00
2,800.00	90.00	180.05	2,370.00	-511.97	-0.43	511.97	0.00	0.00	0.00
2,900.00	90.00	180.05	2,370.00	-611.97	-0.51	611.97	0.00	0.00	0.00
3,000.00	90.00	180.05	2,370.00	-711.97	-0.59	711.97	0.00	0.00	0.00
3,100.00	90.00	180.05	2,370.00	-811.97	-0.68	811.97	0.00	0.00	0.00
3,200.00	90.00	180.05	2,370.00	-911.97	-0.76	911.97	0.00	0.00	0.00
3,300.00	90.00	180.05	2,370.00	-1,011.97	-0.84	1,011.97	0.00	0.00	0.00
3,400.00	90.00	180.05	2,370.00	-1,111.97	-0.92	1,111.97	0.00	0.00	0.00
3,500.00	90.00	180.05	2,370.00	-1,211.97	-1.01	1,211.97	0.00	0.00	0.00
3,600.00	90.00	180.05	2,370.00	-1,311.97	-1.09	1,311.97	0.00	0.00	0.00
3,700.00	90.00	180.05	2,370.00	-1,411.97	-1.17	1,411.97	0.00	0.00	0.00
3,800.00	90.00	180.05	2,370.00	-1,511.97	-1.26	1,511.97	0.00	0.00	0.00
3,900.00	90.00	180.05	2,370.00	-1,611.97	-1.34	1,611.97	0.00	0.00	0.00
4,000.00	90.00	180.05	2,370.00	-1,711.97	-1.42	1,711.97	0.00	0.00	0.00
4,092.13	90.00	180.05	2,370.00	-1,804.10	-1.50	1,804.10	0.00	0.00	0.00
PBHL#1[SB27#10H]									

Black Viper Energy
Survey Report



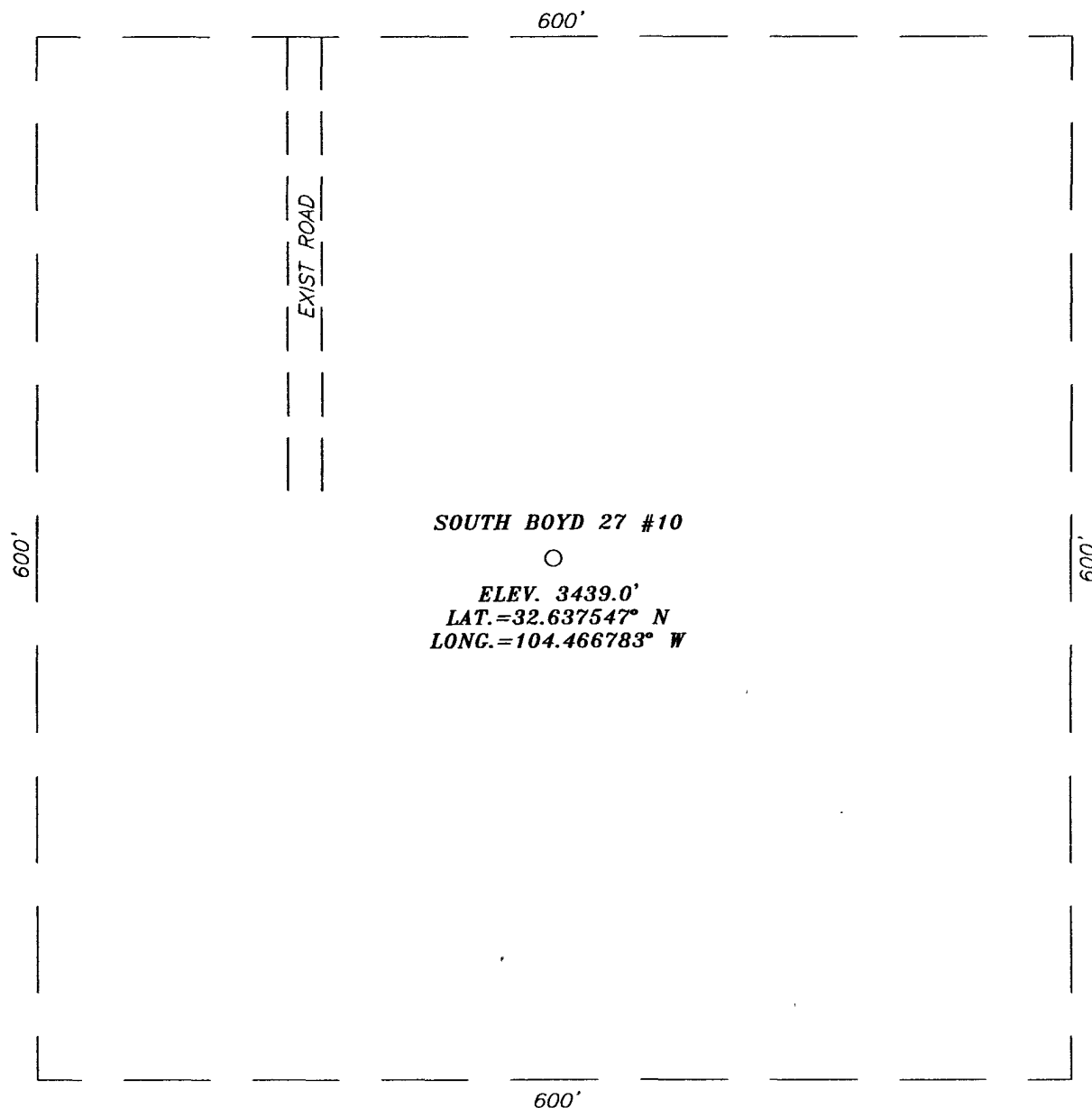
Company:	Nearburg Producing Co.	Local Co-ordinate Reference:	Well South Boyd 27 #10H
Project:	Eddy County, NM	TVD Reference:	WELL @ 3449.00ft (Original Well Elev)
Site:	South Boyd 27 #10H	MD Reference:	WELL @ 3449.00ft (Original Well Elev)
Well:	South Boyd 27 #10H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 2003.14.1.0 Server DB

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
PBHL#1[SB27#10H]	0.00	360.00	2,370.00	-1,804.10	-1.50	593,872.80	458,918.60	32° 37' 57.307 N	104° 28' 0.420 W
- plan hits target									
- Point									

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	
2,179.01	2,179.01	0.00	0.00	KOP - Build 30.0° / 100
2,479.01	2,370.00	-190.99	-0.16	EOC - Hold 90.0° Inc. : 180.05° Azi.

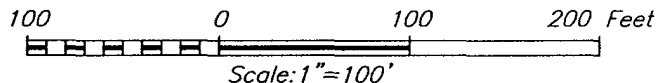
Checked By: _____ Approved By: _____ Date: _____

SECTION 27, TOWNSHIP 19 SOUTH, RANGE 25 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO



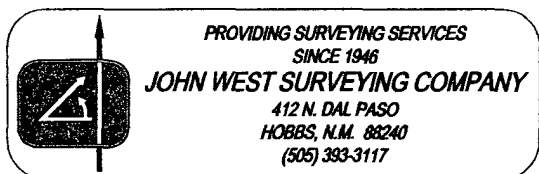
DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF ST. HWY. #285 AND CO. RD. #21 (ROCKIN-R-RED RD.), GO WEST ON CO. RD. #21 APPROX. 4.3 MILES. TURN LEFT AND GO SOUTH APPROX. 0.4 MILES. TURN RIGHT AND GO WEST APPROX. 0.3 MILES. TURN LEFT AND GO SOUTH APPROX. 0.4 MILES. TURN LEFT AND GO EAST APPROX. 0.4 MILES. TURN RIGHT AND GO SOUTH APPROX. 0.3 MILES TO THE EXISTING SOUTH BOYD 27 #10 WELL.



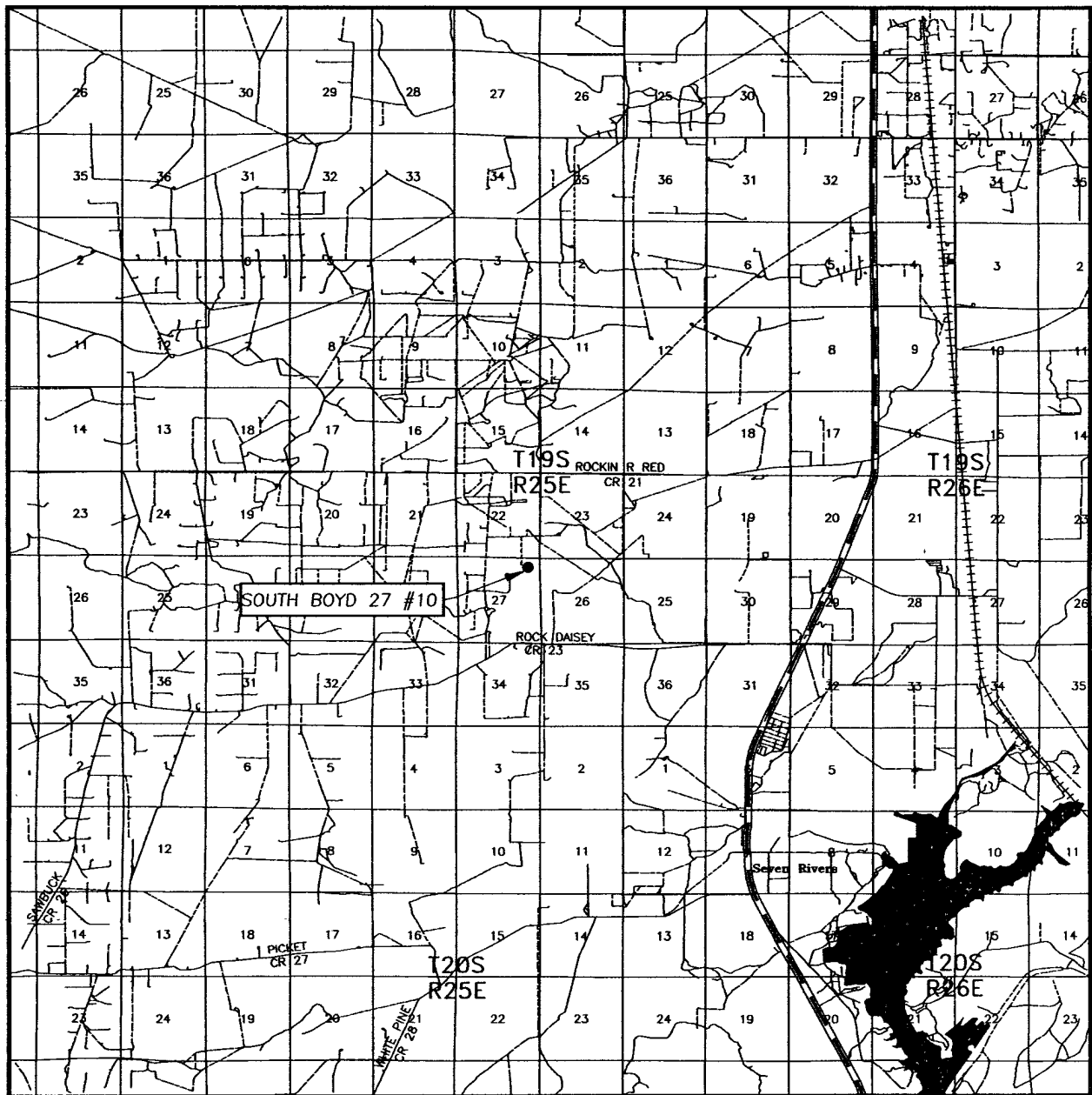
NEARBURG PRODUCING COMPANY

SOUTH BOYD 27 #10 WELL
 LOCATED 505 FEET FROM THE NORTH LINE
 AND 990 FEET FROM THE EAST LINE OF SECTION 27,
 TOWNSHIP 19 SOUTH, RANGE 25 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO.



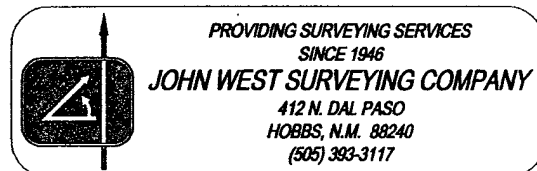
Survey Date: 01/31/07	Sheet 1 of 1 Sheets
W.O. Number: 07.11.0139	Dr By: J.R.
Date: 01/03/07	Disk: CD#7
07110139	Scale: 1"=100'

VICINITY MAP

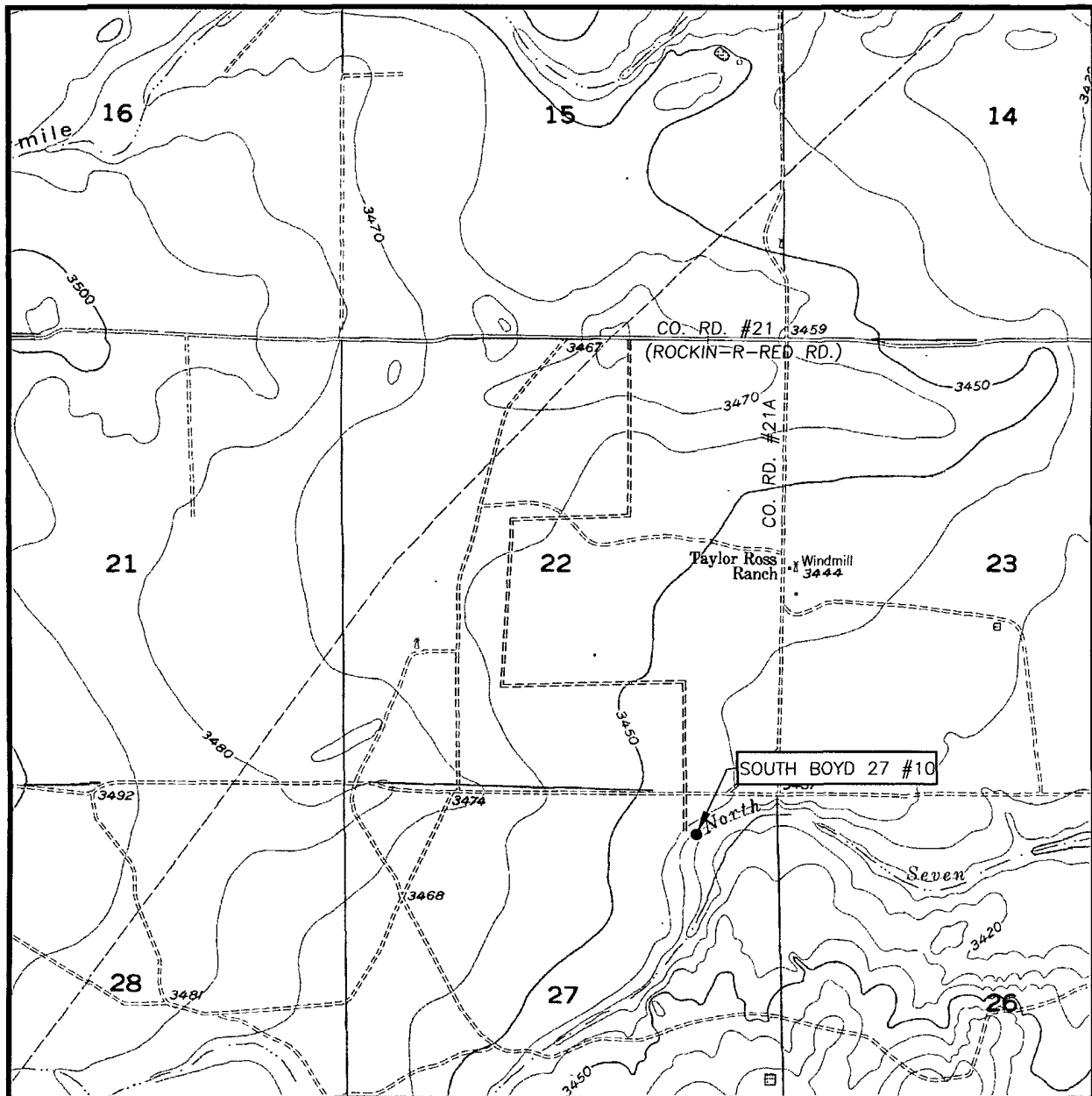


SCALE: 1" = 2 MILES

SEC. 27 TWP. 19-S RGE. 25-E
 SURVEY N.M.P.M.
 COUNTY EDDY STATE NEW MEXICO
 DESCRIPTION 505' FNL & 990' FEL
 ELEVATION 3439'
 NEARBURG
 OPERATOR PRODUCING COMPANY
 LEASE SOUTH BOYD 27



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
DAYTON, N.M. - 10'

SEC. 27 TWP. 19-S RGE. 25-E

SURVEY _____ N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

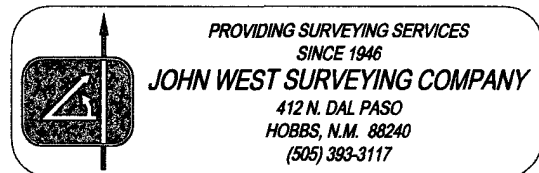
DESCRIPTION 505' FNL & 990' FEL

ELEVATION 3439'

OPERATOR NEARBURG
PRODUCING COMPANY

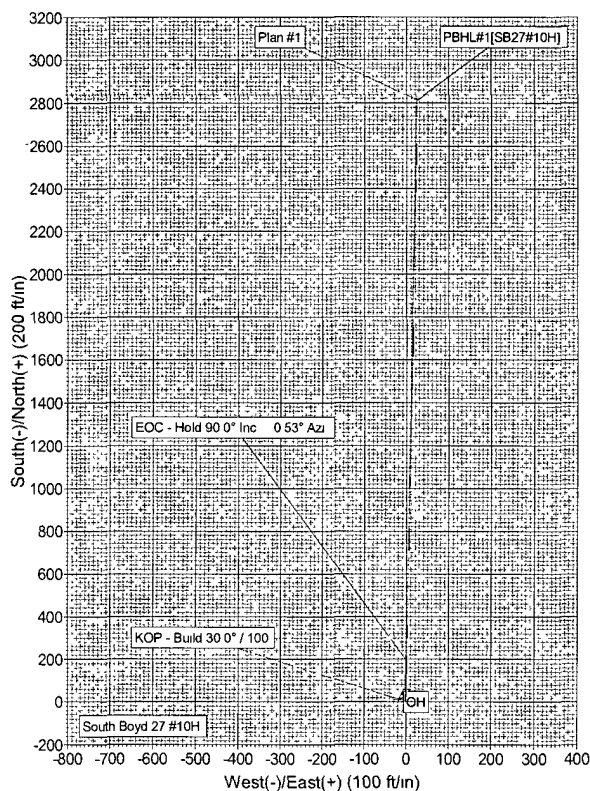
LEASE SOUTH BOYD 27

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



NEARBURG PRODUCTION

Project: Eddy County, NM
Site: South Boyd 27 #10H
Well: South Boyd 27 #10H
Wellbore: Lateral #1
Plan: Plan #1 (South Boyd 27 #10H/Lateral #1)

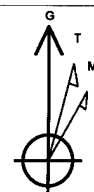


ANNOTATIONS

TVD	MD	Annotation
2179.01	2179.01	KOP - Build 30.0° / 100
2370.00	2479.01	EOC - Hold 90.0° Inc 0.53° Azi

PROJECT DETAILS Eddy County, NM

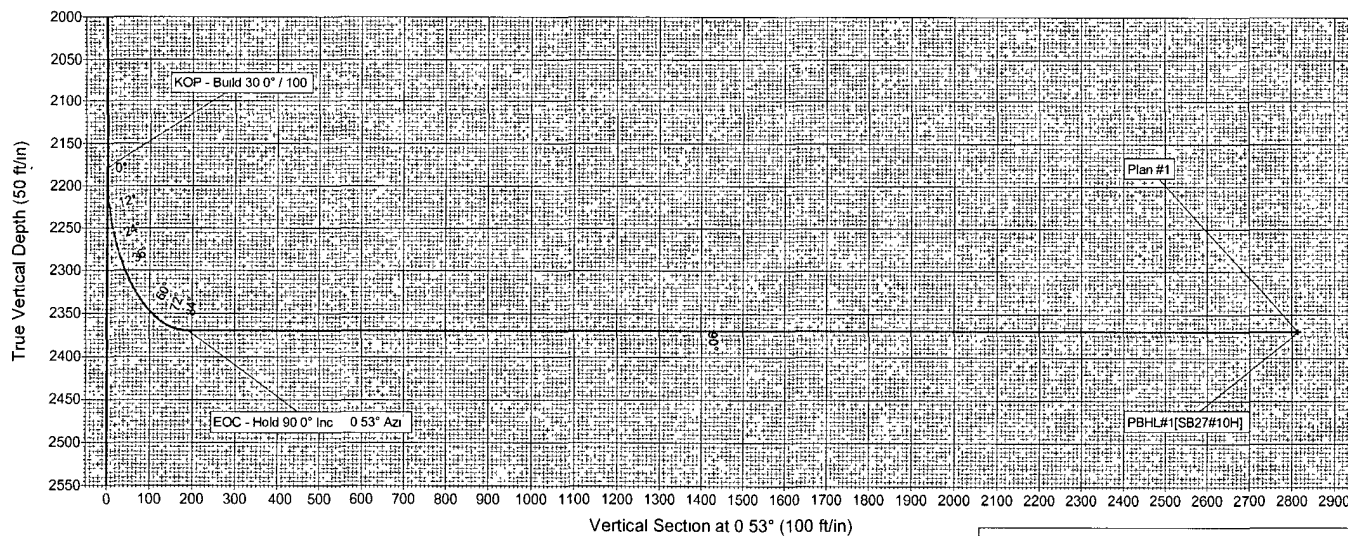
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Ground Level



Azimuths to Grd North
True North 0.07°
Magnetic North 8.53°
Magnetic Field
Strength 49155.9nT
Dip Angle 60.51°
Date 9/20/2007
Model IGRF200510

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	2179.00	0.00	0.00	2179.00	0.00	0.00	0.00	0.00	0.00	
2	2179.01	0.00	0.00	2179.01	0.00	0.00	0.00	0.00	0.00	
3	2479.01	90.00	0.53	2370.00	190.98	1.76	30.00	0.53	190.99	
4	5102.65	90.00	0.53	2370.00	2814.50	25.90	0.00	0.00	2814.62	PBHL#1[SB27#10H]



Plan: Plan #1 (South Boyd 27 #10H/Lateral #1)
Created By: L.D. Burton Date: September 20, 2007

A Black Viper Energy Services Directional Survey

Company
Wellbore
Wellbore Type

County
Well Name

Nearburg Production
Lateral #1
Horizontal

Eddy County, New Mexico
South Boyd 27.#10H



	Measured Depth (ft)	Incl	Azim	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate ("100ft)
Reference	0	0	0	0	0	0	0	0
Tie In	2179 01	0	0	2179 01	0	0	0	0
KOP	2190	3 296	0 527	2189 99	0 32	0	0 32	30
Build 60.0°/100	2200	6 296	0 527	2199 96	1 15	0 01	1 15	30
	2210	9 296	0 527	2209 86	2 51	0 02	2 51	30
	2220	12 296	0 527	2219 69	4 38	0 04	4 38	30
	2230	15 296	0 527	2229 4	6 77	0 06	6 77	30
	2240	18 296	0 527	2238 97	9 65	0 09	9 65	30
	2250	21 296	0 527	2248 38	13 04	0 12	13 04	30
	2260	24 296	0 527	2257 59	16 91	0 16	16 92	30
	2270	27 296	0 527	2266 6	21 27	0 2	21 27	30
	2280	30 296	0 527	2275 36	26 08	0 24	26 08	30
	2290	33 296	0 527	2283 86	31 35	0 29	31 35	30
	2300	36 296	0 527	2292 07	37 06	0 34	37 06	30
	2310	39 296	0 527	2299 97	43 18	0 4	43 18	30
	2320	42 296	0 527	2307 54	49 72	0 46	49 72	30
	2330	45 296	0 527	2314 76	56 84	0 52	56 84	30
	2340	48 296	0 527	2321 6	63 92	0 59	63 93	30
	2350	51 296	0 527	2328 06	71 56	0 66	71 56	30
	2360	54 296	0 527	2334 1	79 52	0 73	79 53	30
	2370	57 296	0 527	2339 72	87 79	0 81	87 8	30
	2380	60 296	0 527	2344 9	96 34	0 89	96 35	30
	2390	63 296	0 527	2349 63	105 16	0 97	105 16	30
	2400	66 296	0 527	2353 89	114 2	1 05	114 21	30
	2410	69 296	0 527	2357 67	123 46	1 14	123 46	30
	2420	72 296	0 527	2360 95	132 9	1 22	132 91	30
	2430	75 296	0 527	2363 74	142 5	1 31	142 51	30
	2440	78 296	0 527	2366 03	152 24	1 4	152 24	30
	2450	81 296	0 527	2367 8	162 08	1 49	162 08	30
	2460	84 296	0 527	2369 05	172	1 58	172	30
	2470	87 296	0 527	2369 79	181 97	1 67	181 98	30
EOC	2479 01	90	0 527	2370	190 98	1 76	190 99	30
Hold 90.0° Inc.	2500	90	0 527	2370	211 96	1 95	211 97	0
0.53° Azl.	2600	90	0 527	2370	311 96	2 87	311 97	0
	2700	90	0 527	2370	411 95	3 79	411 97	0
	2800	90	0 527	2370	511 95	4 71	511 97	0
	2900	90	0 527	2370	611 95	5 63	611 97	0
	3000	90	0 527	2370	711 94	6 55	711 97	0
	3100	90	0 527	2370	811 94	7 47	811 97	0
	3200	90	0 527	2370	911 93	8 39	911 97	0
	3300	90	0 527	2370	1011 93	9 31	1011 97	0
	3400	90	0 527	2370	1111 92	10 23	1111 97	0
	3500	90	0 527	2370	1211 92	11 15	1211 97	0
	3600	90	0 527	2370	1311 92	12 07	1311 97	0
	3700	90	0 527	2370	1411 91	12 99	1411 97	0
	3800	90	0 527	2370	1511 91	13 91	1511 97	0
	3900	90	0 527	2370	1611 9	14 83	1611 97	0
	4000	90	0 527	2370	1711 9	15 75	1711 97	0
	4100	90	0 527	2370	1811 9	16 67	1811 97	0
	4200	90	0 527	2370	1911 89	17 59	1911 97	0
	4300	90	0 527	2370	2011 89	18 51	2011 97	0
	4400	90	0 527	2370	2111 88	19 43	2111 97	0
	4500	90	0 527	2370	2211 88	20 35	2211 97	0
	4600	90	0 527	2370	2311 87	21 27	2311 97	0
	4700	90	0 527	2370	2411 87	22 19	2411 97	0
	4800	90	0 527	2370	2511 87	23 12	2511 97	0
	4900	90	0 527	2370	2611 86	24 04	2611 97	0
	5000	90	0 527	2370	2711 86	24 96	2711 97	0
TD	5102 65	90	0 527	2370	2814 5	25 9	2814 62	0

Nearburg Producing Co.

Eddy County, NM.

South Boyd 27 #10H

South Boyd 27 #10H

Lateral #1

Plan: Plan #1

Standard Survey Report

20 September, 2007



South Boyd 27 #10H Lateral Plan #1 Report 9-20-07.txt

Nearburg Producing Co.
South Boyd 27 #10H - Plan #1

Eddy County, NM.
South Boyd 27 #10H

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
2180.00	0.296	0.527	2180.00	0.00 N	0.00 E	0.00	0.00
2190.00	3.296	0.527	2189.99	0.32 N	0.00 E	0.32	30.00
2200.00	6.296	0.527	2199.96	1.15 N	0.01 E	1.15	30.00
2210.00	9.296	0.527	2209.86	2.51 N	0.02 E	2.51	30.00
2220.00	12.296	0.527	2219.69	4.38 N	0.04 E	4.38	30.00
2230.00	15.296	0.527	2229.40	6.77 N	0.06 E	6.77	30.00
2240.00	18.296	0.527	2238.97	9.65 N	0.09 E	9.65	30.00
2250.00	21.296	0.527	2248.38	13.04 N	0.12 E	13.04	30.00
2260.00	24.296	0.527	2257.59	16.91 N	0.16 E	16.92	30.00
2270.00	27.296	0.527	2266.60	21.27 N	0.20 E	21.27	30.00
2280.00	30.296	0.527	2275.36	26.08 N	0.24 E	26.08	30.00
2290.00	33.296	0.527	2283.86	31.35 N	0.29 E	31.35	30.00
2300.00	36.296	0.527	2292.07	37.06 N	0.34 E	37.06	30.00
2310.00	39.296	0.527	2299.97	43.18 N	0.40 E	43.18	30.00
2320.00	42.296	0.527	2307.54	49.72 N	0.46 E	49.72	30.00
2330.00	45.296	0.527	2314.76	56.64 N	0.52 E	56.64	30.00
2340.00	48.296	0.527	2321.60	63.92 N	0.59 E	63.93	30.00
2350.00	51.296	0.527	2328.06	71.56 N	0.66 E	71.56	30.00
2360.00	54.296	0.527	2334.10	79.52 N	0.73 E	79.53	30.00
2370.00	57.296	0.527	2339.72	87.79 N	0.81 E	87.80	30.00
2380.00	60.296	0.527	2344.90	96.34 N	0.89 E	96.35	30.00
2390.00	63.296	0.527	2349.63	105.16 N	0.97 E	105.16	30.00
2400.00	66.296	0.527	2353.89	114.20 N	1.05 E	114.21	30.00
2410.00	69.296	0.527	2357.67	123.46 N	1.14 E	123.46	30.00
2420.00	72.296	0.527	2360.95	132.90 N	1.22 E	132.91	30.00
2430.00	75.296	0.527	2363.74	142.50 N	1.31 E	142.51	30.00
2440.00	78.296	0.527	2366.03	152.24 N	1.40 E	152.24	30.00
2450.00	81.296	0.527	2367.80	162.08 N	1.49 E	162.08	30.00
2460.00	84.296	0.527	2369.05	172.00 N	1.58 E	172.00	30.00
2470.00	87.296	0.527	2369.79	181.97 N	1.67 E	181.98	30.00
2480.00	90.000	0.527	2370.00	191.96 N	1.77 E	191.97	27.04
2490.00	90.000	0.527	2370.00	201.96 N	1.86 E	201.97	0.00
2500.00	90.000	0.527	2370.00	211.96 N	1.95 E	211.97	0.00
2510.00	90.000	0.527	2370.00	221.96 N	2.04 E	221.97	0.00
2520.00	90.000	0.527	2370.00	231.96 N	2.13 E	231.97	0.00
2530.00	90.000	0.527	2370.00	241.96 N	2.23 E	241.97	0.00
2540.00	90.000	0.527	2370.00	251.96 N	2.32 E	251.97	0.00
2550.00	90.000	0.527	2370.00	261.96 N	2.41 E	261.97	0.00
2560.00	90.000	0.527	2370.00	271.96 N	2.50 E	271.97	0.00
2570.00	90.000	0.527	2370.00	281.96 N	2.59 E	281.97	0.00
2580.00	90.000	0.527	2370.00	291.96 N	2.69 E	291.97	0.00
2590.00	90.000	0.527	2370.00	301.96 N	2.78 E	301.97	0.00
2600.00	90.000	0.527	2370.00	311.96 N	2.87 E	311.97	0.00
2610.00	90.000	0.527	2370.00	321.96 N	2.96 E	321.97	0.00
2620.00	90.000	0.527	2370.00	331.96 N	3.05 E	331.97	0.00
2630.00	90.000	0.527	2370.00	341.96 N	3.15 E	341.97	0.00
2640.00	90.000	0.527	2370.00	351.96 N	3.24 E	351.97	0.00
2650.00	90.000	0.527	2370.00	361.96 N	3.33 E	361.97	0.00
2660.00	90.000	0.527	2370.00	371.96 N	3.42 E	371.97	0.00
2670.00	90.000	0.527	2370.00	381.96 N	3.51 E	381.97	0.00
2680.00	90.000	0.527	2370.00	391.96 N	3.61 E	391.97	0.00
2690.00	90.000	0.527	2370.00	401.96 N	3.70 E	401.97	0.00
2700.00	90.000	0.527	2370.00	411.95 N	3.79 E	411.97	0.00

South Boyd 27 #10H Lateral Plan #1 Report 9-20-07.txt

2710.00	90.000	0.527	2370.00	421.95 N	3.88 E	421.97	0.00
2720.00	90.000	0.527	2370.00	431.95 N	3.97 E	431.97	0.00
2730.00	90.000	0.527	2370.00	441.95 N	4.07 E	441.97	0.00
2740.00	90.000	0.527	2370.00	451.95 N	4.16 E	451.97	0.00
2750.00	90.000	0.527	2370.00	461.95 N	4.25 E	461.97	0.00
2760.00	90.000	0.527	2370.00	471.95 N	4.34 E	471.97	0.00
2770.00	90.000	0.527	2370.00	481.95 N	4.44 E	481.97	0.00
2780.00	90.000	0.527	2370.00	491.95 N	4.53 E	491.97	0.00
2790.00	90.000	0.527	2370.00	501.95 N	4.62 E	501.97	0.00
2800.00	90.000	0.527	2370.00	511.95 N	4.71 E	511.97	0.00
2810.00	90.000	0.527	2370.00	521.95 N	4.80 E	521.97	0.00
2820.00	90.000	0.527	2370.00	531.95 N	4.90 E	531.97	0.00
2830.00	90.000	0.527	2370.00	541.95 N	4.99 E	541.97	0.00
2840.00	90.000	0.527	2370.00	551.95 N	5.08 E	551.97	0.00
2850.00	90.000	0.527	2370.00	561.95 N	5.17 E	561.97	0.00
2860.00	90.000	0.527	2370.00	571.95 N	5.26 E	571.97	0.00
2870.00	90.000	0.527	2370.00	581.95 N	5.36 E	581.97	0.00
2880.00	90.000	0.527	2370.00	591.95 N	5.45 E	591.97	0.00
2890.00	90.000	0.527	2370.00	601.95 N	5.54 E	601.97	0.00
2900.00	90.000	0.527	2370.00	611.95 N	5.63 E	611.97	0.00
2910.00	90.000	0.527	2370.00	621.95 N	5.72 E	621.97	0.00
2920.00	90.000	0.527	2370.00	631.95 N	5.82 E	631.97	0.00
2930.00	90.000	0.527	2370.00	641.94 N	5.91 E	641.97	0.00
2940.00	90.000	0.527	2370.00	651.94 N	6.00 E	651.97	0.00
2950.00	90.000	0.527	2370.00	661.94 N	6.09 E	661.97	0.00
2960.00	90.000	0.527	2370.00	671.94 N	6.18 E	671.97	0.00
2970.00	90.000	0.527	2370.00	681.94 N	6.28 E	681.97	0.00
2980.00	90.000	0.527	2370.00	691.94 N	6.37 E	691.97	0.00
2990.00	90.000	0.527	2370.00	701.94 N	6.46 E	701.97	0.00
3000.00	90.000	0.527	2370.00	711.94 N	6.55 E	711.97	0.00
3010.00	90.000	0.527	2370.00	721.94 N	6.64 E	721.97	0.00
3020.00	90.000	0.527	2370.00	731.94 N	6.74 E	731.97	0.00
3030.00	90.000	0.527	2370.00	741.94 N	6.83 E	741.97	0.00
3040.00	90.000	0.527	2370.00	751.94 N	6.92 E	751.97	0.00
3050.00	90.000	0.527	2370.00	761.94 N	7.01 E	761.97	0.00
3060.00	90.000	0.527	2370.00	771.94 N	7.10 E	771.97	0.00
3070.00	90.000	0.527	2370.00	781.94 N	7.20 E	781.97	0.00
3080.00	90.000	0.527	2370.00	791.94 N	7.29 E	791.97	0.00
3090.00	90.000	0.527	2370.00	801.94 N	7.38 E	801.97	0.00
3100.00	90.000	0.527	2370.00	811.94 N	7.47 E	811.97	0.00
3110.00	90.000	0.527	2370.00	821.94 N	7.56 E	821.97	0.00
3120.00	90.000	0.527	2370.00	831.94 N	7.66 E	831.97	0.00
3130.00	90.000	0.527	2370.00	841.94 N	7.75 E	841.97	0.00
3140.00	90.000	0.527	2370.00	851.94 N	7.84 E	851.97	0.00
3150.00	90.000	0.527	2370.00	861.94 N	7.93 E	861.97	0.00
3160.00	90.000	0.527	2370.00	871.94 N	8.02 E	871.97	0.00
3170.00	90.000	0.527	2370.00	881.93 N	8.12 E	881.97	0.00
3180.00	90.000	0.527	2370.00	891.93 N	8.21 E	891.97	0.00
3190.00	90.000	0.527	2370.00	901.93 N	8.30 E	901.97	0.00
3200.00	90.000	0.527	2370.00	911.93 N	8.39 E	911.97	0.00
3210.00	90.000	0.527	2370.00	921.93 N	8.48 E	921.97	0.00
3220.00	90.000	0.527	2370.00	931.93 N	8.58 E	931.97	0.00
3230.00	90.000	0.527	2370.00	941.93 N	8.67 E	941.97	0.00
3240.00	90.000	0.527	2370.00	951.93 N	8.76 E	951.97	0.00
3250.00	90.000	0.527	2370.00	961.93 N	8.85 E	961.97	0.00
3260.00	90.000	0.527	2370.00	971.93 N	8.94 E	971.97	0.00
3270.00	90.000	0.527	2370.00	981.93 N	9.04 E	981.97	0.00
3280.00	90.000	0.527	2370.00	991.93 N	9.13 E	991.97	0.00
3290.00	90.000	0.527	2370.00	1001.93 N	9.22 E	1001.97	0.00
3300.00	90.000	0.527	2370.00	1011.93 N	9.31 E	1011.97	0.00
3310.00	90.000	0.527	2370.00	1021.93 N	9.40 E	1021.97	0.00
3320.00	90.000	0.527	2370.00	1031.93 N	9.50 E	1031.97	0.00
3330.00	90.000	0.527	2370.00	1041.93 N	9.59 E	1041.97	0.00

South Boyd 27 #10H Lateral Plan #1 Report 9-20-07.txt

3340.00	90.000	0.527	2370.00	1051.93 N	9.68 E	1051.97	0.00
3350.00	90.000	0.527	2370.00	1061.93 N	9.77 E	1061.97	0.00
3360.00	90.000	0.527	2370.00	1071.93 N	9.86 E	1071.97	0.00
3370.00	90.000	0.527	2370.00	1081.93 N	9.96 E	1081.97	0.00
3380.00	90.000	0.527	2370.00	1091.93 N	10.05 E	1091.97	0.00
3390.00	90.000	0.527	2370.00	1101.93 N	10.14 E	1101.97	0.00
3400.00	90.000	0.527	2370.00	1111.92 N	10.23 E	1111.97	0.00
3410.00	90.000	0.527	2370.00	1121.92 N	10.32 E	1121.97	0.00
3420.00	90.000	0.527	2370.00	1131.92 N	10.42 E	1131.97	0.00
3430.00	90.000	0.527	2370.00	1141.92 N	10.51 E	1141.97	0.00
3440.00	90.000	0.527	2370.00	1151.92 N	10.60 E	1151.97	0.00
3450.00	90.000	0.527	2370.00	1161.92 N	10.69 E	1161.97	0.00
3460.00	90.000	0.527	2370.00	1171.92 N	10.78 E	1171.97	0.00
3470.00	90.000	0.527	2370.00	1181.92 N	10.88 E	1181.97	0.00
3480.00	90.000	0.527	2370.00	1191.92 N	10.97 E	1191.97	0.00
3490.00	90.000	0.527	2370.00	1201.92 N	11.06 E	1201.97	0.00
3500.00	90.000	0.527	2370.00	1211.92 N	11.15 E	1211.97	0.00
3510.00	90.000	0.527	2370.00	1221.92 N	11.24 E	1221.97	0.00
3520.00	90.000	0.527	2370.00	1231.92 N	11.34 E	1231.97	0.00
3530.00	90.000	0.527	2370.00	1241.92 N	11.43 E	1241.97	0.00
3540.00	90.000	0.527	2370.00	1251.92 N	11.52 E	1251.97	0.00
3550.00	90.000	0.527	2370.00	1261.92 N	11.61 E	1261.97	0.00
3560.00	90.000	0.527	2370.00	1271.92 N	11.70 E	1271.97	0.00
3570.00	90.000	0.527	2370.00	1281.92 N	11.80 E	1281.97	0.00
3580.00	90.000	0.527	2370.00	1291.92 N	11.89 E	1291.97	0.00
3590.00	90.000	0.527	2370.00	1301.92 N	11.98 E	1301.97	0.00
3600.00	90.000	0.527	2370.00	1311.92 N	12.07 E	1311.97	0.00
3610.00	90.000	0.527	2370.00	1321.92 N	12.16 E	1321.97	0.00
3620.00	90.000	0.527	2370.00	1331.92 N	12.26 E	1331.97	0.00
3630.00	90.000	0.527	2370.00	1341.92 N	12.35 E	1341.97	0.00
3640.00	90.000	0.527	2370.00	1351.91 N	12.44 E	1351.97	0.00
3650.00	90.000	0.527	2370.00	1361.91 N	12.53 E	1361.97	0.00
3660.00	90.000	0.527	2370.00	1371.91 N	12.62 E	1371.97	0.00
3670.00	90.000	0.527	2370.00	1381.91 N	12.72 E	1381.97	0.00
3680.00	90.000	0.527	2370.00	1391.91 N	12.81 E	1391.97	0.00
3690.00	90.000	0.527	2370.00	1401.91 N	12.90 E	1401.97	0.00
3700.00	90.000	0.527	2370.00	1411.91 N	12.99 E	1411.97	0.00
3710.00	90.000	0.527	2370.00	1421.91 N	13.08 E	1421.97	0.00
3720.00	90.000	0.527	2370.00	1431.91 N	13.18 E	1431.97	0.00
3730.00	90.000	0.527	2370.00	1441.91 N	13.27 E	1441.97	0.00
3740.00	90.000	0.527	2370.00	1451.91 N	13.36 E	1451.97	0.00
3750.00	90.000	0.527	2370.00	1461.91 N	13.45 E	1461.97	0.00
3760.00	90.000	0.527	2370.00	1471.91 N	13.55 E	1471.97	0.00
3770.00	90.000	0.527	2370.00	1481.91 N	13.64 E	1481.97	0.00
3780.00	90.000	0.527	2370.00	1491.91 N	13.73 E	1491.97	0.00
3790.00	90.000	0.527	2370.00	1501.91 N	13.82 E	1501.97	0.00
3800.00	90.000	0.527	2370.00	1511.91 N	13.91 E	1511.97	0.00
3810.00	90.000	0.527	2370.00	1521.91 N	14.01 E	1521.97	0.00
3820.00	90.000	0.527	2370.00	1531.91 N	14.10 E	1531.97	0.00
3830.00	90.000	0.527	2370.00	1541.91 N	14.19 E	1541.97	0.00
3840.00	90.000	0.527	2370.00	1551.91 N	14.28 E	1551.97	0.00
3850.00	90.000	0.527	2370.00	1561.91 N	14.37 E	1561.97	0.00
3860.00	90.000	0.527	2370.00	1571.91 N	14.47 E	1571.97	0.00
3870.00	90.000	0.527	2370.00	1581.91 N	14.56 E	1581.97	0.00
3880.00	90.000	0.527	2370.00	1591.90 N	14.65 E	1591.97	0.00
3890.00	90.000	0.527	2370.00	1601.90 N	14.74 E	1601.97	0.00
3900.00	90.000	0.527	2370.00	1611.90 N	14.83 E	1611.97	0.00
3910.00	90.000	0.527	2370.00	1621.90 N	14.93 E	1621.97	0.00
3920.00	90.000	0.527	2370.00	1631.90 N	15.02 E	1631.97	0.00
3930.00	90.000	0.527	2370.00	1641.90 N	15.11 E	1641.97	0.00
3940.00	90.000	0.527	2370.00	1651.90 N	15.20 E	1651.97	0.00
3950.00	90.000	0.527	2370.00	1661.90 N	15.29 E	1661.97	0.00
3960.00	90.000	0.527	2370.00	1671.90 N	15.39 E	1671.97	0.00

South Boyd 27 #10H Lateral Plan #1 Report 9-20-07.txt

3970.00	90.000	0.527	2370.00	1681.90 N	15.48 E	1681.97	0.00
3980.00	90.000	0.527	2370.00	1691.90 N	15.57 E	1691.97	0.00
3990.00	90.000	0.527	2370.00	1701.90 N	15.66 E	1701.97	0.00
4000.00	90.000	0.527	2370.00	1711.90 N	15.75 E	1711.97	0.00
4010.00	90.000	0.527	2370.00	1721.90 N	15.85 E	1721.97	0.00
4020.00	90.000	0.527	2370.00	1731.90 N	15.94 E	1731.97	0.00
4030.00	90.000	0.527	2370.00	1741.90 N	16.03 E	1741.97	0.00
4040.00	90.000	0.527	2370.00	1751.90 N	16.12 E	1751.97	0.00
4050.00	90.000	0.527	2370.00	1761.90 N	16.21 E	1761.97	0.00
4060.00	90.000	0.527	2370.00	1771.90 N	16.31 E	1771.97	0.00
4070.00	90.000	0.527	2370.00	1781.90 N	16.40 E	1781.97	0.00
4080.00	90.000	0.527	2370.00	1791.90 N	16.49 E	1791.97	0.00
4090.00	90.000	0.527	2370.00	1801.90 N	16.58 E	1801.97	0.00
4100.00	90.000	0.527	2370.00	1811.90 N	16.67 E	1811.97	0.00
4110.00	90.000	0.527	2370.00	1821.89 N	16.77 E	1821.97	0.00
4120.00	90.000	0.527	2370.00	1831.89 N	16.86 E	1831.97	0.00
4130.00	90.000	0.527	2370.00	1841.89 N	16.95 E	1841.97	0.00
4140.00	90.000	0.527	2370.00	1851.89 N	17.04 E	1851.97	0.00
4150.00	90.000	0.527	2370.00	1861.89 N	17.13 E	1861.97	0.00
4160.00	90.000	0.527	2370.00	1871.89 N	17.23 E	1871.97	0.00
4170.00	90.000	0.527	2370.00	1881.89 N	17.32 E	1881.97	0.00
4180.00	90.000	0.527	2370.00	1891.89 N	17.41 E	1891.97	0.00
4190.00	90.000	0.527	2370.00	1901.89 N	17.50 E	1901.97	0.00
4200.00	90.000	0.527	2370.00	1911.89 N	17.59 E	1911.97	0.00
4210.00	90.000	0.527	2370.00	1921.89 N	17.69 E	1921.97	0.00
4220.00	90.000	0.527	2370.00	1931.89 N	17.78 E	1931.97	0.00
4230.00	90.000	0.527	2370.00	1941.89 N	17.87 E	1941.97	0.00
4240.00	90.000	0.527	2370.00	1951.89 N	17.96 E	1951.97	0.00
4250.00	90.000	0.527	2370.00	1961.89 N	18.05 E	1961.97	0.00
4260.00	90.000	0.527	2370.00	1971.89 N	18.15 E	1971.97	0.00
4270.00	90.000	0.527	2370.00	1981.89 N	18.24 E	1981.97	0.00
4280.00	90.000	0.527	2370.00	1991.89 N	18.33 E	1991.97	0.00
4290.00	90.000	0.527	2370.00	2001.89 N	18.42 E	2001.97	0.00
4300.00	90.000	0.527	2370.00	2011.89 N	18.51 E	2011.97	0.00
4310.00	90.000	0.527	2370.00	2021.89 N	18.61 E	2021.97	0.00
4320.00	90.000	0.527	2370.00	2031.89 N	18.70 E	2031.97	0.00
4330.00	90.000	0.527	2370.00	2041.89 N	18.79 E	2041.97	0.00
4340.00	90.000	0.527	2370.00	2051.89 N	18.88 E	2051.97	0.00
4350.00	90.000	0.527	2370.00	2061.88 N	18.97 E	2061.97	0.00
4360.00	90.000	0.527	2370.00	2071.88 N	19.07 E	2071.97	0.00
4370.00	90.000	0.527	2370.00	2081.88 N	19.16 E	2081.97	0.00
4380.00	90.000	0.527	2370.00	2091.88 N	19.25 E	2091.97	0.00
4390.00	90.000	0.527	2370.00	2101.88 N	19.34 E	2101.97	0.00
4400.00	90.000	0.527	2370.00	2111.88 N	19.43 E	2111.97	0.00
4410.00	90.000	0.527	2370.00	2121.88 N	19.53 E	2121.97	0.00
4420.00	90.000	0.527	2370.00	2131.88 N	19.62 E	2131.97	0.00
4430.00	90.000	0.527	2370.00	2141.88 N	19.71 E	2141.97	0.00
4440.00	90.000	0.527	2370.00	2151.88 N	19.80 E	2151.97	0.00
4450.00	90.000	0.527	2370.00	2161.88 N	19.89 E	2161.97	0.00
4460.00	90.000	0.527	2370.00	2171.88 N	19.99 E	2171.97	0.00
4470.00	90.000	0.527	2370.00	2181.88 N	20.08 E	2181.97	0.00
4480.00	90.000	0.527	2370.00	2191.88 N	20.17 E	2191.97	0.00
4490.00	90.000	0.527	2370.00	2201.88 N	20.26 E	2201.97	0.00
4500.00	90.000	0.527	2370.00	2211.88 N	20.35 E	2211.97	0.00
4510.00	90.000	0.527	2370.00	2221.88 N	20.45 E	2221.97	0.00
4520.00	90.000	0.527	2370.00	2231.88 N	20.54 E	2231.97	0.00
4530.00	90.000	0.527	2370.00	2241.88 N	20.63 E	2241.97	0.00
4540.00	90.000	0.527	2370.00	2251.88 N	20.72 E	2251.97	0.00
4550.00	90.000	0.527	2370.00	2261.88 N	20.81 E	2261.97	0.00
4560.00	90.000	0.527	2370.00	2271.88 N	20.91 E	2271.97	0.00
4570.00	90.000	0.527	2370.00	2281.88 N	21.00 E	2281.97	0.00
4580.00	90.000	0.527	2370.00	2291.87 N	21.09 E	2291.97	0.00
4590.00	90.000	0.527	2370.00	2301.87 N	21.18 E	2301.97	0.00

South Boyd 27 #10H Lateral Plan #1 Report 9-20-07.txt

4600.00	90.000	0.527	2370.00	2311.87 N	21.27 E	2311.97	0.00
4610.00	90.000	0.527	2370.00	2321.87 N	21.37 E	2321.97	0.00
4620.00	90.000	0.527	2370.00	2331.87 N	21.46 E	2331.97	0.00
4630.00	90.000	0.527	2370.00	2341.87 N	21.55 E	2341.97	0.00
4640.00	90.000	0.527	2370.00	2351.87 N	21.64 E	2351.97	0.00
4650.00	90.000	0.527	2370.00	2361.87 N	21.73 E	2361.97	0.00
4660.00	90.000	0.527	2370.00	2371.87 N	21.83 E	2371.97	0.00
4670.00	90.000	0.527	2370.00	2381.87 N	21.92 E	2381.97	0.00
4680.00	90.000	0.527	2370.00	2391.87 N	22.01 E	2391.97	0.00
4690.00	90.000	0.527	2370.00	2401.87 N	22.10 E	2401.97	0.00
4700.00	90.000	0.527	2370.00	2411.87 N	22.19 E	2411.97	0.00
4710.00	90.000	0.527	2370.00	2421.87 N	22.29 E	2421.97	0.00
4720.00	90.000	0.527	2370.00	2431.87 N	22.38 E	2431.97	0.00
4730.00	90.000	0.527	2370.00	2441.87 N	22.47 E	2441.97	0.00
4740.00	90.000	0.527	2370.00	2451.87 N	22.56 E	2451.97	0.00
4750.00	90.000	0.527	2370.00	2461.87 N	22.65 E	2461.97	0.00
4760.00	90.000	0.527	2370.00	2471.87 N	22.75 E	2471.97	0.00
4770.00	90.000	0.527	2370.00	2481.87 N	22.84 E	2481.97	0.00
4780.00	90.000	0.527	2370.00	2491.87 N	22.93 E	2491.97	0.00
4790.00	90.000	0.527	2370.00	2501.87 N	23.02 E	2501.97	0.00
4800.00	90.000	0.527	2370.00	2511.87 N	23.12 E	2511.97	0.00
4810.00	90.000	0.527	2370.00	2521.87 N	23.21 E	2521.97	0.00
4820.00	90.000	0.527	2370.00	2531.86 N	23.30 E	2531.97	0.00
4830.00	90.000	0.527	2370.00	2541.86 N	23.39 E	2541.97	0.00
4840.00	90.000	0.527	2370.00	2551.86 N	23.48 E	2551.97	0.00
4850.00	90.000	0.527	2370.00	2561.86 N	23.58 E	2561.97	0.00
4860.00	90.000	0.527	2370.00	2571.86 N	23.67 E	2571.97	0.00
4870.00	90.000	0.527	2370.00	2581.86 N	23.76 E	2581.97	0.00
4880.00	90.000	0.527	2370.00	2591.86 N	23.85 E	2591.97	0.00
4890.00	90.000	0.527	2370.00	2601.86 N	23.94 E	2601.97	0.00
4900.00	90.000	0.527	2370.00	2611.86 N	24.04 E	2611.97	0.00
4910.00	90.000	0.527	2370.00	2621.86 N	24.13 E	2621.97	0.00
4920.00	90.000	0.527	2370.00	2631.86 N	24.22 E	2631.97	0.00
4930.00	90.000	0.527	2370.00	2641.86 N	24.31 E	2641.97	0.00
4940.00	90.000	0.527	2370.00	2651.86 N	24.40 E	2651.97	0.00
4950.00	90.000	0.527	2370.00	2661.86 N	24.50 E	2661.97	0.00
4960.00	90.000	0.527	2370.00	2671.86 N	24.59 E	2671.97	0.00
4970.00	90.000	0.527	2370.00	2681.86 N	24.68 E	2681.97	0.00
4980.00	90.000	0.527	2370.00	2691.86 N	24.77 E	2691.97	0.00
4990.00	90.000	0.527	2370.00	2701.86 N	24.86 E	2701.97	0.00
5000.00	90.000	0.527	2370.00	2711.86 N	24.96 E	2711.97	0.00
5010.00	90.000	0.527	2370.00	2721.86 N	25.05 E	2721.97	0.00
5020.00	90.000	0.527	2370.00	2731.86 N	25.14 E	2731.97	0.00
5030.00	90.000	0.527	2370.00	2741.86 N	25.23 E	2741.97	0.00
5040.00	90.000	0.527	2370.00	2751.86 N	25.32 E	2751.97	0.00
5050.00	90.000	0.527	2370.00	2761.86 N	25.42 E	2761.97	0.00
5060.00	90.000	0.527	2370.00	2771.85 N	25.51 E	2771.97	0.00
5070.00	90.000	0.527	2370.00	2781.85 N	25.60 E	2781.97	0.00
5080.00	90.000	0.527	2370.00	2791.85 N	25.69 E	2791.97	0.00
5090.00	90.000	0.527	2370.00	2801.85 N	25.78 E	2801.97	0.00
5100.00	90.000	0.527	2370.00	2811.85 N	25.88 E	2811.97	0.00
5102.65	90.000	0.527	2370.00	2814.50 N	25.90 E	2814.62	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 0.527° (Grid).

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

South Boyd 27 #10H Lateral Plan #1 Report 9-20-07.txt

Central meridian is -104.333° .

Grid Convergence at Surface is -0.072° .

Based upon Minimum Curvature type calculations, at a Measured Depth of 5102.65ft., the Bottom Hole Displacement is 2814.62ft., in the Direction of 0.527° (Grid).