

District I  
1625 N. French Dr., Hobbs, NM 88240

District II  
811 S. First St., Artesia, NM 88210

District III  
1000 Rio Brazos Road, Aztec, NM 87410

District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

FEB 11 2013

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Energy Minerals and Natural Resources

Department

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

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NMOC DISTRICT OFFICE

Form C-144 CLEZ  
Revised August 1, 2011

closed-loop systems that only use above  
ground steel tanks or haul-off bins and propose  
to implement waste removal for closure, submit  
to the NMOC District Office.

### Closed-Loop System Permit or Closure Plan Application

(that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

Type of action: ☒ Permit ☐ Closure

**Instructions:** Please submit one application (Form C-144 CLEZ) per individual closed-loop system request. For any application request other than for a closed-loop system that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, please submit a Form C-144.

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1. Operator: Nearburg Producing Company OGRID #: 015742  
Address: 3300 N A Street, Bldg. 2, Ste. 120, Midland, TX 79705  
Facility or well name: SHUGART WEST 32 STATE #3H  
API Number: 30 - 015 - 41071 OCD Permit Number: 213952  
U/L or Qtr/Qtr O Section 32 Township 18S Range 31E County: Eddy  
Center of Proposed Design: Latitude 32.697452 N Longitude 103.888950 W NAD: ☒ 1927 ☐ 1983  
Surface Owner: ☐ Federal ☒ State ☐ Private ☐ Tribal Trust or Indian Allotment

2. ☒ **Closed-loop System:** Subsection H of 19.15.17.11 NMAC  
Operation: ☒ Drilling a new well ☐ Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) ☐ P&A  
☐ Above Ground Steel Tanks or ☒ Haul-off Bins

3. **Signs:** Subsection C of 19.15.17.11 NMAC  
☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers  
☒ Signed in compliance with 19.15.16.8 NMAC

4. **Closed-loop Systems Permit Application Attachment Checklist:** Subsection B of 19.15.17.9 NMAC  
**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.  
☒ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  
☒ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  
☒ Closure Plan (Please complete Box 5) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC  
☐ Previously Approved Design (attach copy of design) API Number: \_\_\_\_\_  
☐ Previously Approved Operating and Maintenance Plan API Number: \_\_\_\_\_

5. **Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:** (19.15.17.13.D NMAC)  
**Instructions:** Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.  
Disposal Facility Name: CRI Disposal Facility Permit Number: R1966/NM-01-0006  
Disposal Facility Name: \_\_\_\_\_ Disposal Facility Permit Number: \_\_\_\_\_  
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations?  
☐ Yes (If yes, please provide the information below) ☒ No  
Required for impacted areas which will not be used for future service and operations:  
☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  
☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC  
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

6. **Operator Application Certification:**  
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.  
Name (Print): Vicki Johnston Title: Gray Surface Specialties Agent for Nearburg Producing Company  
Signature: Vicki Johnston Date: 2/5/13  
e-mail address: vjohnston1@gmail.com Telephone: (432) 685-9158

7. **OCD Approval:** ☒ Permit Application (including closure plan) ☐ Closure Plan (only)

OCD Representative Signature: HR Dade Approval Date: 2/13/13

Title: Dir. R. Saper OCD Permit Number: 213952

8. **Closure Report (required within 60 days of closure completion):** Subsection K of 19.15.17.13 NMAC

*Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.*

☐ Closure Completion Date: \_\_\_\_\_

9. **Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:**

*Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.*

Disposal Facility Name: \_\_\_\_\_ Disposal Facility Permit Number: \_\_\_\_\_

Disposal Facility Name: \_\_\_\_\_ Disposal Facility Permit Number: \_\_\_\_\_

Were the closed-loop system operations and associated activities performed on or in areas that *will not* be used for future service and operations?

☐ Yes (If yes, please demonstrate compliance to the items below) ☐ No

*Required for impacted areas which will not be used for future service and operations:*

☐ Site Reclamation (Photo Documentation)

☐ Soil Backfilling and Cover Installation

☐ Re-vegetation Application Rates and Seeding Technique

10. **Operator Closure Certification:**

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

e-mail address: \_\_\_\_\_ Telephone: \_\_\_\_\_

**DESIGN PLAN**  
**OPERATING AND MAINTENANCE PLAN**  
**CLOSURE PLAN**

- All drilling fluid circulated over shaker(s) with cuttings discharged into roll-off container.
- Fluid and fines below shaker(s) are circulated with transfer pump through centrifuge(s) or solids separator with cuttings and fines discharged into roll-off container.
- Fluid is continuously re-circulated through equipment with polymer added to aid separation of cutting fines.
- Roll-off containers are lined and de-watered with fluids re-circulated into system.
- Additional tank is used to capture unused drilling fluid or cement returns from casing jobs.
- Closed Loop Equipment will be inspected and monitored closely on a daily basis by each tour, and any necessary maintenance will be performed.
- Any leak in the system will be repaired and/or contained immediately. Within 48 hours of a spill/release, the NMOCD district office in Hobbs will be notified. Notifications may be made earlier if a greater release occurs. Notifications will be made in accordance with the reporting requirements specified in NMOCD Rule 116.
- During and after drilling operations, liquids (which apply), all drill cuttings, and drilling fluids will be hauled to one of the following depending upon which rig is available to drill this well:
  - CRI Permit Number NM-01-0006 -- R-9166
  - GMI Permit Number NM-01-0019 – 711-019-001

**Nearburg Producing Company**  
**SHUGART WEST 32 STATE #3H**  
**SHL: 330' FSL and 1980' FEL, Unit O**  
**BHL: 330' FNL and 1980' FEL, Unit B**  
**Sec 32, T18S, R31E**  
**Eddy County, New Mexico**

Nearburg Producing Company  
SHUGART WEST 32 STATE #3H  
SHL: 330' FSL and 1980' FEL, Unit O  
BHL: 330' FNL and 1980' FEL, Unit B  
Sec 32, T-18S, R31E, Eddy County, NM

HOBBS OCD

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**CEMENT SCHEDULE**

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**13-3/8" CASING:**

**LEAD:**

360 sxs Class C Cement+2% bwoc Calcium Chloride+0.125 bwoc Cello Flake+4% Gel + 81.4% Fresh Water. Weight 13.58 ppg Yield 1.75 cfs

**TAIL:**

250 sxs Class C Cement+2% bwoc Calcium Chloride+0.125 bwoc Cello Flakes+56.3% Fresh Water. Weight 14.8 ppg Yield 1.32 cfs

**9-5/8" CASING:**

**LEAD:**

1000 sxs 50:50 Poz (Fly Ash): Class C Cement+10% bwoc Bentonite+0.125% bwoc CelloFlake +5% bwow Sodium Chloride+0.3% bwoc FL-52+5% bwoc LCM-1+135.5% Fresh Water.  
Weight 11.8 ppg Yield 2.45 cfs Mix Water 13.65 gps

**TAIL:**

370 sxs "C" Neat. Weight 14.8 ppg Yield 1.33 cfs Mix Water 6.33 gps  
These volumes based on circulating cement to surface. 100% excess.

**5-1/2" CASING:**

**1<sup>st</sup> STAGE**

**LEAD:**

500 sxs (65/35) Poz (Fly Ash): Class H Cement: +5% bwoc FL-25+2% bwoc Benonite+5% bow Sodium Chloride+3% bwoc CD-32+0.2% bwoc R-3+0.5% bwoc FL-32A+102.5% Fresh Water.  
Weight 12.5 ppg Yield 2.01 cfs

**TAIL:**

1500 sxs (50/50) Poz (Fly Ash): Class H Cement: +0.2% bwoc R-3+0.125 2% bwoc Cello-flakes +1% bow Sodium Chloride+0.5% bwoc BA-10A+4% bwoc MPA-5 58.3% Fresh water.

Weight 14.2 ppg Yield 1.28 cfs  
These volumes based on 50% excess.

**2<sup>nd</sup> STAGE**

**LEAD:**

600 sxs : Class C Cement+1% bwoc CACL+0.125% Cello-flakes 157.8% fresh water.  
Weight 11.4 ppg Yield 2.89 cfs

**2<sup>nd</sup> STAGE TAIL:**

200 sxs (60/40) Poz(flyash) ClassC Cement 1% Sodium Chloride+0.2%R-3+0.125% Cello-flakes 0.5% BA-10A+4%bwoc MPA-5+63.2% fresh water. Weight 13.80 ppg Yield 1.37 cfs  
These volumes based on 50% excess.

# Nearburg Producing Co.

Shugart West 32 State, Well No. 3H

Eddy County, New Mexico

Quote No.: 011413011

**Aim**  
Directional Services, LLC

## SITE DETAILS: Shugart West 32 State #3H

Site Centre Northing: 617730.40  
Easting: 636704.20

Positional Uncertainty: 0.0  
Convergence: 0.24  
Local North: Grid

## PROJECT DETAILS: Eddy County, New Mexico

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

**HOBBS OCD**

**FEB 11 2013**

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Azimuths to Grid North  
True North: -0.24°  
Magnetic North: 7.35°

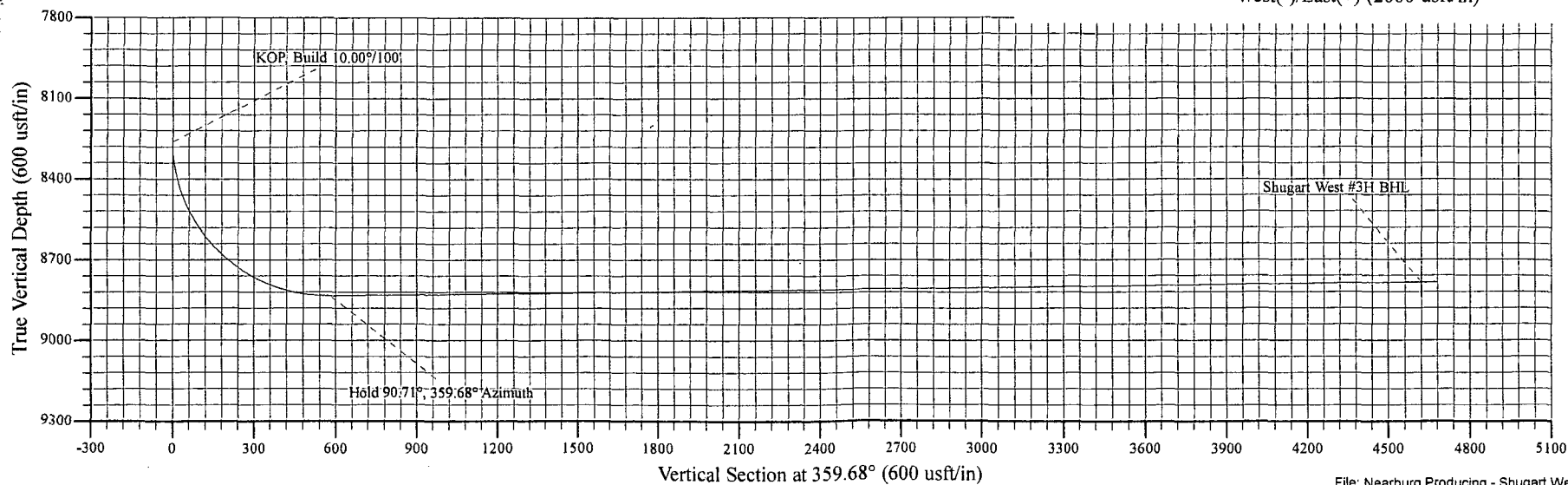
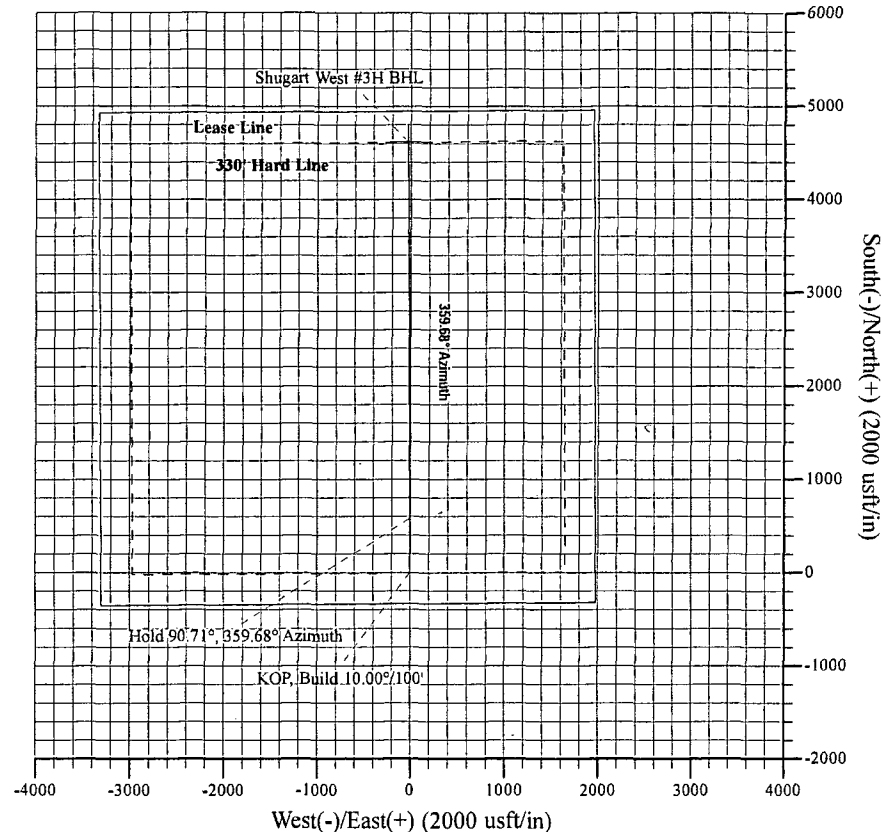
Magnetic Field  
Strength: 48703.9nT  
Dip Angle: 60.52°  
Date: 1/14/2013  
Model: WMM\_2010

## DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Shugart West #3H BHL	8784.0	4620.6	-26.2	622351.00	636678.00	32° 42' 36.550 N	103° 53' 20.299 W	Point

## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target	Annotation
1	8261.0	0.00	0.00	8261.0	0.0	0.0	0.00	0.00	0.0		KOP, Build 10.00%/100'
2	9168.1	90.71	359.68	8833.9	580.0	-3.3	10.00	359.68	580.0		Hold 90.71°, 359.68° Azimuth
3	13209.0	90.71	359.68	8784.0	4620.6	-26.2	0.00	0.00	4620.7	Shugart West #3H BHL	PBHL - Lateral



Drawn By: ALR  
Date Created: 01/14/13  
Date Revised: 01/14/13

File: Nearburg Producing - Shugart West 32 State #3H Lateral 1r0.wpc

# Aim Directional Services, LLC

## Planning Report

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well #3H
<b>Company:</b>	Nearburg Producing Company	<b>TVD Reference:</b>	WELL @ 3584.0usft (Original Well Elev)
<b>Project:</b>	Eddy County, New Mexico	<b>MD Reference:</b>	WELL @ 3584.0usft (Original Well Elev)
<b>Site:</b>	Shugart West 32 State #3H	<b>North Reference:</b>	Grid
<b>Well:</b>	#3H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Lateral 1r0		
<b>Design:</b>	Lateral 1r0		

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

<b>Site</b>	Shugart West 32 State #3H		
<b>Site Position:</b>		<b>Northing:</b>	617,730.40 usft
<b>From:</b>	Map	<b>Easting:</b>	636,704.20 usft
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "
		<b>Latitude:</b>	32° 41' 50.827 N
		<b>Longitude:</b>	103° 53' 20.219 W
		<b>Grid Convergence:</b>	0.24 °

<b>Well</b>	#3H		
<b>Well Position</b>	+N/-S	0.0 usft	<b>Northing:</b> 617,730.40 usft
	+E/-W	0.0 usft	<b>Easting:</b> 636,704.20 usft
<b>Position Uncertainty</b>	0.0 usft	<b>Wellhead Elevation:</b>	<b>Latitude:</b> 32° 41' 50.827 N
			<b>Longitude:</b> 103° 53' 20.219 W
			<b>Ground Level:</b> 3,576.0 usft

<b>Wellbore</b>	Lateral 1r0				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b>	<b>Dip Angle</b>	<b>Field Strength</b>
			(°)	(°)	(nT)
	WMM_2010	1/14/2013	7.60	60.52	48,704

<b>Design</b>	Lateral 1r0			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	8,261.0
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	359.68

<b>Plan Sections</b>										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
8,261.0	0.00	0.00	8,261.0	0.0	0.0	0.00	0.00	0.00	0.00	
9,168.1	90.71	359.68	8,833.9	580.0	-3.3	10.00	10.00	-0.04	359.68	
13,209.0	90.71	359.68	8,784.0	4,620.6	-26.2	0.00	0.00	0.00	0.00	Shugart West #3H I

# Aim Directional Services, LLC

## Planning Report

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well #3H
<b>Company:</b>	Nearburg Producing Company	<b>TVD Reference:</b>	WELL @ 3584.0usft (Original Well Elev)
<b>Project:</b>	Eddy County, New Mexico	<b>MD Reference:</b>	WELL @ 3584.0usft (Original Well Elev)
<b>Site:</b>	Shugart West 32 State #3H	<b>North Reference:</b>	Grid
<b>Well:</b>	#3H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Lateral 1r0		
<b>Design:</b>	Lateral 1r0		

### Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,261.0	0.00	0.00	8,261.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>KOP, Build 10.00°/100'</b>									
8,300.0	3.90	359.68	8,300.0	1.3	0.0	1.3	10.00	10.00	0.00
8,350.0	8.90	359.68	8,349.6	6.9	0.0	6.9	10.00	10.00	0.00
8,400.0	13.90	359.68	8,398.6	16.8	-0.1	16.8	10.00	10.00	0.00
8,450.0	18.90	359.68	8,446.6	30.9	-0.2	30.9	10.00	10.00	0.00
8,500.0	23.90	359.68	8,493.1	49.1	-0.3	49.1	10.00	10.00	0.00
8,550.0	28.90	359.68	8,537.9	71.4	-0.4	71.4	10.00	10.00	0.00
8,600.0	33.90	359.68	8,580.6	97.4	-0.6	97.4	10.00	10.00	0.00
8,650.0	38.90	359.68	8,620.8	127.1	-0.7	127.1	10.00	10.00	0.00
8,700.0	43.90	359.68	8,658.3	160.1	-0.9	160.1	10.00	10.00	0.00
8,750.0	48.90	359.68	8,692.8	196.3	-1.1	196.3	10.00	10.00	0.00
8,800.0	53.90	359.68	8,723.9	235.4	-1.3	235.4	10.00	10.00	0.00
8,850.0	58.90	359.68	8,751.6	277.0	-1.6	277.0	10.00	10.00	0.00
8,900.0	63.90	359.68	8,775.5	320.9	-1.8	320.9	10.00	10.00	0.00
8,950.0	68.90	359.68	8,795.5	366.7	-2.1	366.7	10.00	10.00	0.00
9,000.0	73.90	359.68	8,811.5	414.1	-2.3	414.1	10.00	10.00	0.00
9,050.0	78.90	359.68	8,823.2	462.6	-2.6	462.7	10.00	10.00	0.00
9,100.0	83.90	359.68	8,830.7	512.1	-2.9	512.1	10.00	10.00	0.00
9,150.0	88.90	359.68	8,833.9	561.9	-3.2	562.0	10.00	10.00	0.00
9,168.1	90.71	359.68	8,833.9	580.0	-3.3	580.1	9.99	9.99	0.00
<b>Hold 90.71°, 359.68° Azimuth</b>									
9,200.0	90.71	359.68	8,833.5	611.9	-3.5	612.0	0.00	0.00	0.00
9,300.0	90.71	359.68	8,832.3	711.9	-4.0	711.9	0.00	0.00	0.00
9,400.0	90.71	359.68	8,831.0	811.9	-4.6	811.9	0.00	0.00	0.00
9,500.0	90.71	359.68	8,829.8	911.9	-5.2	911.9	0.00	0.00	0.00
9,600.0	90.71	359.68	8,828.6	1,011.9	-5.7	1,011.9	0.00	0.00	0.00
9,700.0	90.71	359.68	8,827.3	1,111.9	-6.3	1,111.9	0.00	0.00	0.00
9,800.0	90.71	359.68	8,826.1	1,211.9	-6.9	1,211.9	0.00	0.00	0.00
9,900.0	90.71	359.68	8,824.9	1,311.9	-7.4	1,311.9	0.00	0.00	0.00
10,000.0	90.71	359.68	8,823.6	1,411.9	-8.0	1,411.9	0.00	0.00	0.00
10,100.0	90.71	359.68	8,822.4	1,511.9	-8.6	1,511.9	0.00	0.00	0.00
10,200.0	90.71	359.68	8,821.2	1,611.9	-9.1	1,611.9	0.00	0.00	0.00
10,300.0	90.71	359.68	8,819.9	1,711.8	-9.7	1,711.9	0.00	0.00	0.00
10,400.0	90.71	359.68	8,818.7	1,811.8	-10.3	1,811.9	0.00	0.00	0.00
10,500.0	90.71	359.68	8,817.5	1,911.8	-10.8	1,911.9	0.00	0.00	0.00
10,600.0	90.71	359.68	8,816.2	2,011.8	-11.4	2,011.8	0.00	0.00	0.00
10,700.0	90.71	359.68	8,815.0	2,111.8	-12.0	2,111.8	0.00	0.00	0.00
10,800.0	90.71	359.68	8,813.8	2,211.8	-12.5	2,211.8	0.00	0.00	0.00
10,900.0	90.71	359.68	8,812.5	2,311.8	-13.1	2,311.8	0.00	0.00	0.00
11,000.0	90.71	359.68	8,811.3	2,411.8	-13.7	2,411.8	0.00	0.00	0.00
11,100.0	90.71	359.68	8,810.1	2,511.8	-14.2	2,511.8	0.00	0.00	0.00
11,200.0	90.71	359.68	8,808.8	2,611.8	-14.8	2,611.8	0.00	0.00	0.00
11,300.0	90.71	359.68	8,807.6	2,711.8	-15.4	2,711.8	0.00	0.00	0.00
11,400.0	90.71	359.68	8,806.3	2,811.7	-15.9	2,811.8	0.00	0.00	0.00
11,500.0	90.71	359.68	8,805.1	2,911.7	-16.5	2,911.8	0.00	0.00	0.00
11,600.0	90.71	359.68	8,803.9	3,011.7	-17.1	3,011.8	0.00	0.00	0.00
11,700.0	90.71	359.68	8,802.6	3,111.7	-17.6	3,111.8	0.00	0.00	0.00
11,800.0	90.71	359.68	8,801.4	3,211.7	-18.2	3,211.8	0.00	0.00	0.00
11,900.0	90.71	359.68	8,800.2	3,311.7	-18.8	3,311.7	0.00	0.00	0.00
12,000.0	90.71	359.68	8,798.9	3,411.7	-19.3	3,411.7	0.00	0.00	0.00
12,100.0	90.71	359.68	8,797.7	3,511.7	-19.9	3,511.7	0.00	0.00	0.00
12,200.0	90.71	359.68	8,796.5	3,611.7	-20.5	3,611.7	0.00	0.00	0.00
12,300.0	90.71	359.68	8,795.2	3,711.7	-21.0	3,711.7	0.00	0.00	0.00

# Aim Directional Services, LLC

## Planning Report

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well #3H
<b>Company:</b>	Nearburg Producing Company	<b>TVD Reference:</b>	WELL @ 3584.0usft (Original Well Elev)
<b>Project:</b>	Eddy County, New Mexico	<b>MD Reference:</b>	WELL @ 3584.0usft (Original Well Elev)
<b>Site:</b>	Shugart West 32 State #3H	<b>North Reference:</b>	Grid
<b>Well:</b>	#3H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Lateral 1r0		
<b>Design:</b>	Lateral 1r0		

### Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,400.0	90.71	359.68	8,794.0	3,811.6	-21.6	3,811.7	0.00	0.00	0.00
12,500.0	90.71	359.68	8,792.8	3,911.6	-22.2	3,911.7	0.00	0.00	0.00
12,600.0	90.71	359.68	8,791.5	4,011.6	-22.7	4,011.7	0.00	0.00	0.00
12,700.0	90.71	359.68	8,790.3	4,111.6	-23.3	4,111.7	0.00	0.00	0.00
12,800.0	90.71	359.68	8,789.1	4,211.6	-23.9	4,211.7	0.00	0.00	0.00
12,900.0	90.71	359.68	8,787.8	4,311.6	-24.4	4,311.7	0.00	0.00	0.00
13,000.0	90.71	359.68	8,786.6	4,411.6	-25.0	4,411.7	0.00	0.00	0.00
13,100.0	90.71	359.68	8,785.3	4,511.6	-25.6	4,511.7	0.00	0.00	0.00
13,209.0	90.71	359.68	8,784.0	4,620.6	-26.2	4,620.6	0.00	0.00	0.00
PBHL - Lateral									

### Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Shugart West #3H BI-	0.00	0.00	8,784.0	4,620.6	-26.2	622,351.00	636,678.00	32° 42' 36.550 N	103° 53' 20.299 W
- plan hits target center									
- Point									

### Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
8,261.0	8,261.0	0.0	0.0	KOP, Build 10.00°/100'	
9,168.1	8,833.9	580.0	-3.3	Hold 90.71°, 359.68° Azimuth	
13,209.0	8,784.0	4,620.6	-26.2	PBHL - Lateral	