

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-025-40220
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. VB-1050
7. Lease Name or Unit Agreement Name Warrior-BRW State Com
8. Well Number 1H
9. OGRID Number 025575
10. Pool name or Wildcat 3 rd Bone Springs Sand

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)
HOBBS OCD

1. Type of Well: Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Yates Petroleum Corporation

3. Address of Operator
105 S. 4th St. Artesia, NM 88210

4. Well Location
Unit Letter D : 330 feet from the North line and 660 feet from the West line
Section 28 Township 23S Range 35E NMPM Lea County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3,364' GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Yates Petroleum Corporation respectfully requests to make the following changes: We would like to set our surface casing to a depth of approx. 1,535' and our intermediate casing to approx. 5,670'. Casing designs have been attached. We also request to change our target formation to the 3rd Bone Springs sand with a TVD @ EOC to approx. 11,570' and @ EOL to approx. 11,550'. Our SL and BHL will remain the same. I have attached the directional plan for the well.

Thank you.

Spud Date: 10/31/11 Rig Release Date:

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

SIGNATURE Naomi Saiz TITLE Well Planning Tech DATE 9/30/2014

Type or print name Naomi Saiz E-mail address: nsaiz@yatespetroleum.com PHONE: 575-748-4211

For State Use Only

APPROVED BY: [Signature] TITLE Petroleum Engineer DATE 10/02/14

Conditions of Approval (if any):

OCT 02 2014

Warrior BRW State Com #1H Casing Design

Surface: 1,535'

3rd segment	80 ft to	0 ft	Make up Torque ft-lbs			Total ft =	80
O.D.	Weight	Grade	Threads	opt.	min.	mx.	
13.375 inches	54.5 #/ft	J-55	ST&C	5,140	3,860	6,430	
Collapse Resistance	Internal Yield	Joint Strength		Body Yield		Drift	
1,130	2,730 psi	514,000 #		853,000 #		12.459	

2nd segment	1,300 ft to	80 ft	Make up Torque ft-lbs			Total ft =	1,220
O.D.	Weight	Grade	Threads	opt.	min.	mx.	
13.375 inches	48 #/ft	J-55	ST&C	4,330	3,250	5,410	
Collapse Resistance	Internal Yield	Joint Strength		Body Yield		Drift	
740	2,370 psi	433,000 #		744,000 #		12.569	

1st segment	1,535 ft to	1,300 ft	Make up Torque ft-lbs			Total ft =	235
O.D.	Weight	Grade	Threads	opt.	min.	mx.	
13.375 inches	54.5 #/ft	J-55	ST&C	5,140	3,860	6,430	
Collapse Resistance	Internal Yield	Joint Strength		Body Yield		Drift	
1,130	2,730 psi	514,000 #		853,000 #		12.459	

Intermediate: 5,670'

4th segment	80 ft to	0 ft	Make up Torque ft-lbs			Total ft =	80
O.D.	Weight	Grade	Threads	opt.	min.	mx.	
9.625 inches	40 #/ft	J-55	LT&C	5,200	3,900	6,500	
Collapse Resistance	Internal Yield	Joint Strength		Body Yield		Drift	
2,570 psi	3,950 psi	520,000 #		630,000 #		8.75-SD	

3rd segment	3,200 ft to	80 ft	Make up Torque ft-lbs			Total ft =	3,120
O.D.	Weight	Grade	Threads	opt.	min.	mx.	
9.625 inches	36 #/ft	J-55	LT&C	4,530	3,400	5,660	
Collapse Resistance	Internal Yield	Joint Strength		Body Yield		Drift	
2,020 psi	3,520 psi	394,000 #		564,000 #		8.765	

2nd segment	4,200 ft to	3,200 ft	Make up Torque ft-lbs			Total ft =	1,000
O.D.	Weight	Grade	Threads	opt.	min.	mx.	
9.625 inches	40 #/ft	J-55	LT&C	5,200	3,900	6,500	
Collapse Resistance	Internal Yield	Joint Strength		Body Yield		Drift	
2,570 psi	3,950 psi	520,000 #		630,000 #		8.75-SD	

1st segment	5,670 ft to	4,200 ft	Make up Torque ft-lbs			Total ft =	1,470
O.D.	Weight	Grade	Threads	opt.	min.	mx.	
9.625 inches	40 #/ft	HCK-55	LT&C	6,940	5,210	8,680	
Collapse Resistance	Internal Yield	Joint Strength		Body Yield		Drift	
4,230 psi	3,950 psi	694,000 #		630,000 #		8.75-SD	



Yates Petroleum
Project: Lea County, NM (NAD-83)
Site: Warrior "BRW" State Com
Well: #1H
Wellbore: OH
Plan: Plan #1 (#1H/OH)

WELL DETAILS: #1H

Ground Elevation: 3364.0
RKB Elevation: RKB @ 3389.0usft (Cactus 124 - KB=25)
Rig Name: Cactus 124 - KB=25

Surface Hole Location
Northing 467618.43 Easting 836282.74 Latitude 32° 16' 55.022 N Longitude 103° 22' 44.211 W



Azimuths to Grid North
True North: -0.51°
Magnetic North: 6.59°

Magnetic Field
Strength: 48347.2snT
Dip Angle: 60.19°
Date: 9/12/2014
Model: IGRF2010

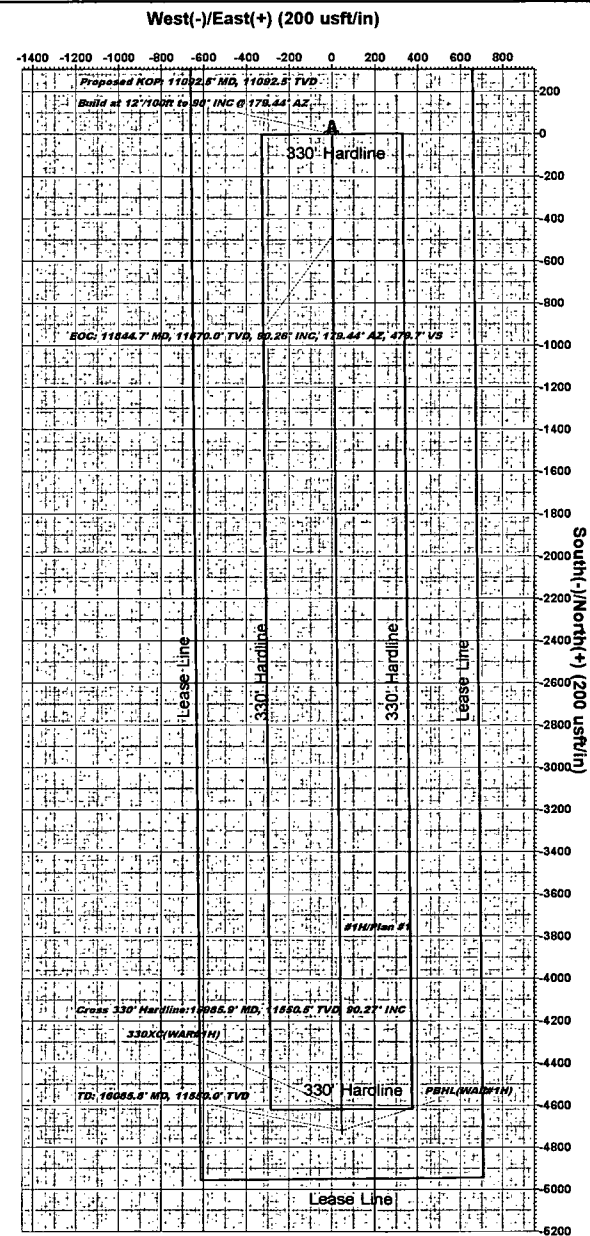
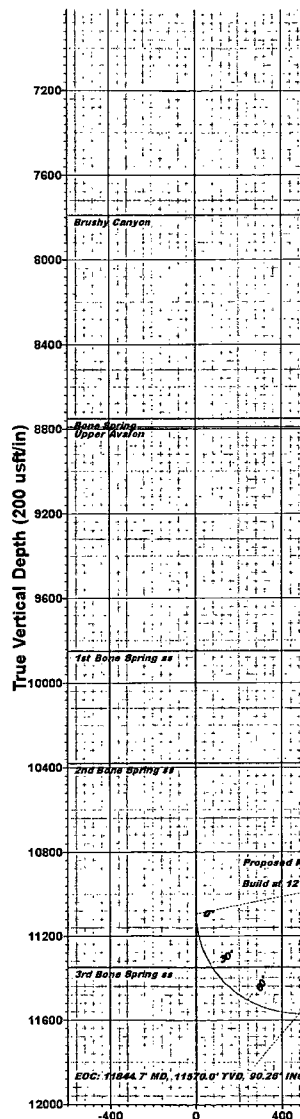
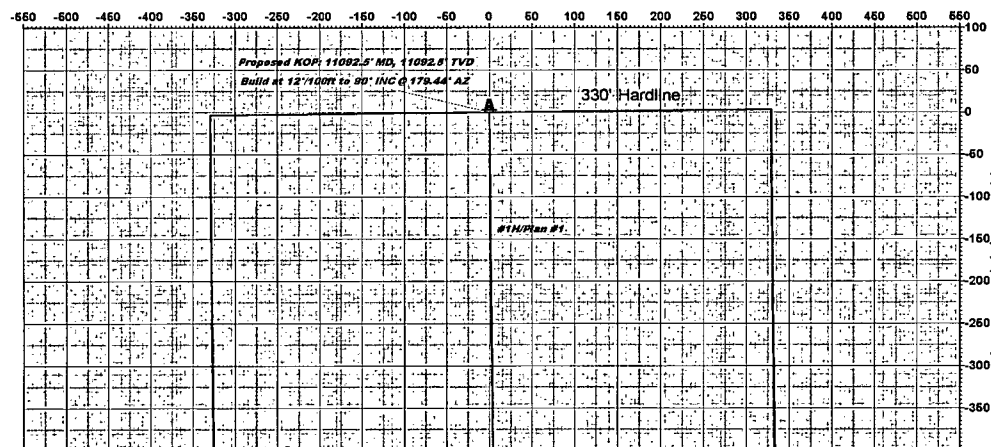
Section Details

	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2	11092.5	0.00	0.00	11092.5	0.0	0.0	0.00	0.00	0.0
3	11844.7	90.27	179.44	11670.0	-479.7	4.7	12.00	179.44	479.7
4	15985.9	90.27	179.44	11550.0	-4620.6	45.2	0.00	0.00	4620.8
5	16085.8	90.27	179.44	11550.0	-4720.6	46.2	0.00	0.00	4720.8

DESIGN TARGET DETAILS

Name	+N/-S	+E/-W	Northing	Easting
PBHL(WAR#1H)	-4720.6	46.2	462897.90	836328.80
330XC(WAR#1H)	-4620.6	45.2	462997.83	836327.83

West(-)/East(+) (50 usft/in)



PROJECT DETAILS: Lea County, NM (NAD-83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level
Local North: Grid



Vertical Section at 179.44° (200 usft/in)

Crescent Directional Drilling
7715 West Industrial Ave. Midland, Tx 79706
Phone: 432-618-1135

Plan: Plan #1 (#1H/OH)
Created By: Adrian Castro Date: 16:13, September 12 2014

Yates Petroleum

**Lea County, NM (NAD-83)
Warrior "BRW" State Com
#1H**

OH

Plan: Plan #1

Standard Planning Report

12 September, 2014

Planning Report

Database:	Houston R5000 Database	Local Co-ordinate Reference:	Well #1H
Company:	Yates Petroleum	TVD Reference:	RKB @ 3389.0usft (Cactus 124 - KB=25)
Project:	Lea County, NM (NAD-83)	MD Reference:	RKB @ 3389.0usft (Cactus 124 - KB=25)
Site:	Warrior 'BRW' State Com	North Reference:	Grid
Well:	#1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project:	Lea County, NM (NAD-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:	Warrior 'BRW' State Com		
Site Position:		Northing:	467,618.43 usft
From:	Map	Easting:	836,282.74 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	32° 16' 55.022 N
		Longitude:	103° 22' 44.211 W
		Grid Convergence:	0.51 °

Well	#1H				
Well Position	+N/-S	0.0 usft	Northing:	467,618.43 usft	Latitude: 32° 16' 55.022 N
	+E/-W	0.0 usft	Easting:	836,282.74 usft	Longitude: 103° 22' 44.211 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level: 3,364.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/12/2014	7.10	60.19	48,347

Design:		Plan #1		
Audit Notes:				
Version:		Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:		Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft) Direction (°)
		0.0	0.0	0.0 179.44

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
11,092.5	0.00	0.00	11,092.5	0.0	0.0	0.00	0.00	0.00	0.00	
11,844.7	90.27	179.44	11,570.0	-479.7	4.7	12.00	12.00	23.85	179.44	
15,985.9	90.27	179.44	11,550.5	-4,620.6	45.2	0.00	0.00	0.00	0.00	
16,085.8	90.27	179.44	11,550.0	-4,720.5	46.2	0.00	0.00	0.00	0.00	PBHL(WAR#1H)

Planning Report

Database:	Houston R5000 Database	Local Co-ordinate Reference:	Well #1H
Company:	Yates Petroleum	TVD Reference:	RKB @ 3389.0usft (Cactus-124 - KB=25)
Project:	Lea County, NM, (NAD-83)	MD Reference:	RKB @ 3389.0usft (Cactus 124 - KB=25)
Site:	Warrior "BRW" State Com	North Reference:	Grid
Well:	#1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,510.0	0.00	0.00	1,510.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,910.0	0.00	0.00	1,910.0	0.0	0.0	0.0	0.00	0.00	0.00
Salado									
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,540.0	0.00	0.00	3,540.0	0.0	0.0	0.0	0.00	0.00	0.00
Base of Salt									
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00

Planning Report

Database:	Houston R5000 Database	Local Co-ordinate Reference:	Well #1H
Company:	Yates Petroleum	TVD Reference:	RKB @ 3389.0usft (Cactus 124 - KB=25)
Project:	Lea County, NM (NAD-83)	MD Reference:	RKB @ 3389.0usft (Cactus 124 - KB=25)
Site:	Warrior "BRW" State Com	North Reference:	Grid
Well:	#1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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)	
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,570.0	0.00	0.00	5,570.0	0.0	0.0	0.0	0.00	0.00	0.00	
Delaware										
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,170.0	0.00	0.00	6,170.0	0.0	0.0	0.0	0.00	0.00	0.00	
Cherry Canyon										
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,790.0	0.00	0.00	7,790.0	0.0	0.0	0.0	0.00	0.00	0.00	
Brushy Canyon										
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,750.0	0.00	0.00	8,750.0	0.0	0.0	0.0	0.00	0.00	0.00	
Bone Spring										
8,790.0	0.00	0.00	8,790.0	0.0	0.0	0.0	0.00	0.00	0.00	
Upper Avalon										
8,800.0	0.00	0.00	8,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,000.0	0.00	0.00	9,000.0	0.0	0.0	0.0	0.00	0.00	0.00	

Planning Report

Database:	Houston R5000 Database	Local Co-ordinate Reference:	Well #1H
Company:	Yates Petroleum	TVD Reference:	RKB @ 3389.0usft (Cactus 124 - KB=25)
Project:	Lea County, NM (NAD-83)	MD Reference:	RKB @ 3389.0usft (Cactus 124 - KB=25)
Site:	Warrior "BRW" State Com	North Reference:	Grid
Well:	#1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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)
9,100.0	0.00	0.00	9,100.0	0.0	0.0	0.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,200.0	0.0	0.0	0.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,300.0	0.0	0.0	0.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,400.0	0.0	0.0	0.0	0.00	0.00	0.00
9,500.0	0.00	0.00	9,500.0	0.0	0.0	0.0	0.00	0.00	0.00
9,600.0	0.00	0.00	9,600.0	0.0	0.0	0.0	0.00	0.00	0.00
9,700.0	0.00	0.00	9,700.0	0.0	0.0	0.0	0.00	0.00	0.00
9,800.0	0.00	0.00	9,800.0	0.0	0.0	0.0	0.00	0.00	0.00
9,850.0	0.00	0.00	9,850.0	0.0	0.0	0.0	0.00	0.00	0.00
1st Bone Spring ss									
9,900.0	0.00	0.00	9,900.0	0.0	0.0	0.0	0.00	0.00	0.00
10,000.0	0.00	0.00	10,000.0	0.0	0.0	0.0	0.00	0.00	0.00
10,100.0	0.00	0.00	10,100.0	0.0	0.0	0.0	0.00	0.00	0.00
10,200.0	0.00	0.00	10,200.0	0.0	0.0	0.0	0.00	0.00	0.00
10,300.0	0.00	0.00	10,300.0	0.0	0.0	0.0	0.00	0.00	0.00
10,380.0	0.00	0.00	10,380.0	0.0	0.0	0.0	0.00	0.00	0.00
2nd Bone Spring ss									
10,400.0	0.00	0.00	10,400.0	0.0	0.0	0.0	0.00	0.00	0.00
10,500.0	0.00	0.00	10,500.0	0.0	0.0	0.0	0.00	0.00	0.00
10,600.0	0.00	0.00	10,600.0	0.0	0.0	0.0	0.00	0.00	0.00
10,700.0	0.00	0.00	10,700.0	0.0	0.0	0.0	0.00	0.00	0.00
10,800.0	0.00	0.00	10,800.0	0.0	0.0	0.0	0.00	0.00	0.00
10,900.0	0.00	0.00	10,900.0	0.0	0.0	0.0	0.00	0.00	0.00
11,000.0	0.00	0.00	11,000.0	0.0	0.0	0.0	0.00	0.00	0.00
11,092.5	0.00	0.00	11,092.5	0.0	0.0	0.0	0.00	0.00	0.00
Build at 12°/100ft to 90° INC @ 179.44° AZ - Proposed KOP: 11092.5' MD, 11092.5' TVD									
11,100.0	0.90	179.44	11,100.0	-0.1	0.0	0.1	12.00	12.00	0.00
11,125.0	3.90	179.44	11,125.0	-1.1	0.0	1.1	12.00	12.00	0.00
11,150.0	6.90	179.44	11,149.9	-3.5	0.0	3.5	12.00	12.00	0.00
11,175.0	9.90	179.44	11,174.6	-7.1	0.1	7.1	12.00	12.00	0.00
11,200.0	12.90	179.44	11,199.1	-12.1	0.1	12.1	12.00	12.00	0.00
11,225.0	15.90	179.44	11,223.3	-18.3	0.2	18.3	12.00	12.00	0.00
11,250.0	18.90	179.44	11,247.2	-25.7	0.3	25.7	12.00	12.00	0.00
11,275.0	21.90	179.44	11,270.6	-34.5	0.3	34.5	12.00	12.00	0.00
11,300.0	24.90	179.44	11,293.5	-44.4	0.4	44.4	12.00	12.00	0.00
11,325.0	27.90	179.44	11,315.9	-55.5	0.5	55.5	12.00	12.00	0.00
11,350.0	30.90	179.44	11,337.7	-67.8	0.7	67.8	12.00	12.00	0.00
11,364.5	32.64	179.44	11,350.0	-75.4	0.7	75.4	12.00	12.00	0.00
3rd Bone Spring ss									
11,375.0	33.90	179.44	11,358.8	-81.2	0.8	81.2	12.00	12.00	0.00
11,400.0	36.90	179.44	11,379.2	-95.6	0.9	95.6	12.00	12.00	0.00
11,425.0	39.90	179.44	11,398.8	-111.2	1.1	111.2	12.00	12.00	0.00
11,450.0	42.90	179.44	11,417.5	-127.7	1.2	127.7	12.00	12.00	0.00
11,475.0	45.90	179.44	11,435.4	-145.2	1.4	145.2	12.00	12.00	0.00
11,500.0	48.90	179.44	11,452.3	-163.6	1.6	163.6	12.00	12.00	0.00
11,525.0	51.90	179.44	11,468.2	-182.8	1.8	182.9	12.00	12.00	0.00
11,550.0	54.90	179.44	11,483.1	-202.9	2.0	202.9	12.00	12.00	0.00
11,575.0	57.90	179.44	11,497.0	-223.7	2.2	223.7	12.00	12.00	0.00
11,600.0	60.90	179.44	11,509.7	-245.2	2.4	245.3	12.00	12.00	0.00
11,625.0	63.90	179.44	11,521.3	-267.4	2.6	267.4	12.00	12.00	0.00
11,650.0	66.90	179.44	11,531.7	-290.1	2.8	290.1	12.00	12.00	0.00
11,675.0	69.90	179.44	11,540.9	-313.4	3.1	313.4	12.00	12.00	0.00
11,700.0	72.90	179.44	11,548.9	-337.1	3.3	337.1	12.00	12.00	0.00

Planning Report

Database:	Houston R5000 Database	Local Co-ordinate Reference:	Well #1H
Company:	Yates Petroleum	TVD Reference:	RKB @ 3389.0usft (Cactus 124 - KB=25)
Project:	Lea County, NM (NAD-83)	MD Reference:	RKB @ 3389.0usft (Cactus 124 - KB=25)
Site:	Warrior "BRW" State Com	North Reference:	Grid
Well:	#1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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)
11,725.0	75.90	179.44	11,555.6	-361.1	3.5	361.1	12.00	12.00	0.00
11,750.0	78.90	179.44	11,561.0	-385.5	3.8	385.5	12.00	12.00	0.00
11,775.0	81.90	179.44	11,565.2	-410.2	4.0	410.2	12.00	12.00	0.00
11,800.0	84.90	179.44	11,568.1	-435.0	4.3	435.0	12.00	12.00	0.00
11,825.0	87.90	179.44	11,569.6	-459.9	4.5	460.0	12.00	12.00	0.00
11,844.7	90.26	179.44	11,570.0	-479.6	4.7	479.7	12.00	12.00	0.00
EOC: 11844.7' MD, 11570.0' TVD, 90.26° INC, 179.44° AZ, 479.7' VS									
11,900.0	90.27	179.44	11,569.7	-534.9	5.2	535.0	0.01	0.01	0.00
12,000.0	90.27	179.44	11,569.2	-634.9	6.2	635.0	0.00	0.00	0.00
12,100.0	90.27	179.44	11,568.8	-734.9	7.2	735.0	0.00	0.00	0.00
12,200.0	90.27	179.44	11,568.3	-834.9	8.2	835.0	0.00	0.00	0.00
12,300.0	90.27	179.44	11,567.8	-934.9	9.1	935.0	0.00	0.00	0.00
12,400.0	90.27	179.44	11,567.3	-1,034.9	10.1	1,035.0	0.00	0.00	0.00
12,500.0	90.27	179.44	11,566.9	-1,134.9	11.1	1,135.0	0.00	0.00	0.00
12,600.0	90.27	179.44	11,566.4	-1,234.9	12.1	1,235.0	0.00	0.00	0.00
12,700.0	90.27	179.44	11,565.9	-1,334.9	13.1	1,335.0	0.00	0.00	0.00
12,800.0	90.27	179.44	11,565.5	-1,434.9	14.0	1,435.0	0.00	0.00	0.00
12,900.0	90.27	179.44	11,565.0	-1,534.9	15.0	1,535.0	0.00	0.00	0.00
13,000.0	90.27	179.44	11,564.5	-1,634.9	16.0	1,635.0	0.00	0.00	0.00
13,100.0	90.27	179.44	11,564.1	-1,734.9	17.0	1,735.0	0.00	0.00	0.00
13,200.0	90.27	179.44	11,563.6	-1,834.9	17.9	1,834.9	0.00	0.00	0.00
13,300.0	90.27	179.44	11,563.1	-1,934.9	18.9	1,934.9	0.00	0.00	0.00
13,400.0	90.27	179.44	11,562.6	-2,034.9	19.9	2,034.9	0.00	0.00	0.00
13,500.0	90.27	179.44	11,562.2	-2,134.8	20.9	2,134.9	0.00	0.00	0.00
13,600.0	90.27	179.44	11,561.7	-2,234.8	21.9	2,234.9	0.00	0.00	0.00
13,700.0	90.27	179.44	11,561.2	-2,334.8	22.8	2,334.9	0.00	0.00	0.00
13,800.0	90.27	179.44	11,560.8	-2,434.8	23.8	2,434.9	0.00	0.00	0.00
13,900.0	90.27	179.44	11,560.3	-2,534.8	24.8	2,534.9	0.00	0.00	0.00
14,000.0	90.27	179.44	11,559.8	-2,634.8	25.8	2,634.9	0.00	0.00	0.00
14,100.0	90.27	179.44	11,559.3	-2,734.8	26.8	2,734.9	0.00	0.00	0.00
14,200.0	90.27	179.44	11,558.9	-2,834.8	27.7	2,834.9	0.00	0.00	0.00
14,300.0	90.27	179.44	11,558.4	-2,934.8	28.7	2,934.9	0.00	0.00	0.00
14,400.0	90.27	179.44	11,557.9	-3,034.8	29.7	3,034.9	0.00	0.00	0.00
14,500.0	90.27	179.44	11,557.5	-3,134.8	30.7	3,134.9	0.00	0.00	0.00
14,600.0	90.27	179.44	11,557.0	-3,234.8	31.6	3,234.9	0.00	0.00	0.00
14,700.0	90.27	179.44	11,556.5	-3,334.8	32.6	3,334.9	0.00	0.00	0.00
14,800.0	90.27	179.44	11,556.1	-3,434.8	33.6	3,434.9	0.00	0.00	0.00
14,900.0	90.27	179.44	11,555.6	-3,534.8	34.6	3,534.9	0.00	0.00	0.00
15,000.0	90.27	179.44	11,555.1	-3,634.8	35.6	3,634.9	0.00	0.00	0.00
15,100.0	90.27	179.44	11,554.6	-3,734.8	36.5	3,734.9	0.00	0.00	0.00
15,200.0	90.27	179.44	11,554.2	-3,834.7	37.5	3,834.9	0.00	0.00	0.00
15,300.0	90.27	179.44	11,553.7	-3,934.7	38.5	3,934.9	0.00	0.00	0.00
15,400.0	90.27	179.44	11,553.2	-4,034.7	39.5	4,034.9	0.00	0.00	0.00
15,500.0	90.27	179.44	11,552.8	-4,134.7	40.4	4,134.9	0.00	0.00	0.00
15,600.0	90.27	179.44	11,552.3	-4,234.7	41.4	4,234.9	0.00	0.00	0.00
15,700.0	90.27	179.44	11,551.8	-4,334.7	42.4	4,334.9	0.00	0.00	0.00
15,800.0	90.27	179.44	11,551.3	-4,434.7	43.4	4,434.9	0.00	0.00	0.00
15,900.0	90.27	179.44	11,550.9	-4,534.7	44.4	4,534.9	0.00	0.00	0.00
15,985.9	90.27	179.44	11,550.5	-4,620.6	45.2	4,620.8	0.00	0.00	0.00
Cross 330' Hardline: 15985.9' MD, 11550.5' TVD, 90.27° INC									
16,000.0	90.27	179.44	11,550.4	-4,634.7	45.3	4,634.9	0.00	0.00	0.00
16,085.8	90.27	179.44	11,550.0	-4,720.5	46.2	4,720.7	0.00	0.00	0.00
TD: 16085.8' MD, 11550.0' TVD									

Planning Report

Database:	Houston R5000 Database	Local Co-ordinate Reference:	Well #1H
Company:	Yates Petroleum	TVD Reference:	RKB @ 3389.0usft (Cactus 124 - KB=25)
Project:	Lea County, NM (NAD-83)	MD Reference:	RKB @ 3389.0usft (Cactus 124 - KB=25)
Site:	Warrior "BRW" State Com	North Reference:	Grid
Well:	#1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Design Targets									
Target Name	- hit/miss target Shape	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude Longitude
PBHL(WAR#1H)	- plan hits target center - Point	0.00	0.00	11,550.0	-4,720.5	46.2	462,897.90	836,328.90	32° 16' 8.310 N 103° 22' 44.162 W
330XC(WAR#1H)	- plan misses target center by 0.1usft at 15985.9usft MD (11550.5 TVD, -4620.6 N, 45.2 E) - Point	0.00	0.00	11,550.4	-4,620.6	45.2	462,997.83	836,327.93	32° 16' 9.299 N 103° 22' 44.163 W

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,510.0	1,510.0	Rustler				
1,910.0	1,910.0	Salado				
3,540.0	3,540.0	Base of Salt				
5,570.0	5,570.0	Delaware				
6,170.0	6,170.0	Cherry Canyon				
7,790.0	7,790.0	Brushy Canyon				
8,750.0	8,750.0	Bone Spring				
8,790.0	8,790.0	Upper Avalon				
9,850.0	9,850.0	1st Bone Spring ss				
10,380.0	10,380.0	2nd Bone Spring ss				
11,364.5	11,350.0	3rd Bone Spring ss				

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,092.5	11,092.5	0.0	0.0	Build at 12"/100ft to 90° INC @ 179.44° AZ
11,092.5	11,092.5	0.0	0.0	Proposed KOP: 11092.5' MD, 11092.5' TVD
11,844.7	11,570.0	-479.6	4.7	EOC: 11844.7' MD, 11570.0' TVD, 90.26° INC, 179.44° AZ, 479.7' VS
15,985.9	11,550.5	-4,620.6	45.2	Cross 330' Hardline: 15985.9' MD, 11550.5' TVD, 90.27° INC
16,085.8	11,550.0	-4,720.5	46.2	TD: 16085.8' MD, 11550.0' TVD