

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 August 1, 2011

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

WELL API NO. 30-025-40864
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. VB-1859/L-5167
7. Lease Name or Unit Agreement Name Action BTI State Com.
8. Well Number: #1H
9. OGRID Number 25575
10. Pool name or Wildcat 2 nd Bone Spring/Wildcat
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3667

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.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	
2. Name of Operator Yates Petroleum Corporation	
3. Address of Operator 105 S. Fourth St., Artesia, NM 88210	
4. Well Location Unit Letter <u>D</u> : <u>200</u> feet from the <u>N</u> line and <u>825</u> feet from the <u>W</u> line Section <u>16</u> Township <u>24S</u> Range <u>33E</u> NMPM County <u>Lea</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3667	

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☒	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
OTHER: ☐		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 is requesting to change the name of the well from the Jackson Unit #10H to the Action BTI State Com. #1H. Yates Petroleum Corporation would also like to request a change in the drilling plan and target zone, the target zone was the Bone Spring, West and it is now the 2nd Bone Springs/SD, the TD was 14980' and will now be 15772' (please note drilling plan attached).

OPER. OGRID NO. 25575
PROPERTY NO. 39754
POOL CODE 96674
EFF. DATE 2/13/2013
API NO. 30-025-40864

Spud Date: 3/4/2013

Rig Release Date:

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

SIGNATURE [Signature] TITLE Land Regulatory Agent DATE 04/20/2012

Type or print name Travis Hahn E-mail address: thahn@yatespetroleum.com PHONE: 575-748-4120

For State Use Only

APPROVED BY: [Signature] TITLE Petroleum Engineer DATE FEB 28 2013
Conditions of Approval (if any):



HOBBS OCD

FEB 20 2013

RECEIVED

Yates Petroleum

Lea County, NM (NAD-83)

Action BTI State Com

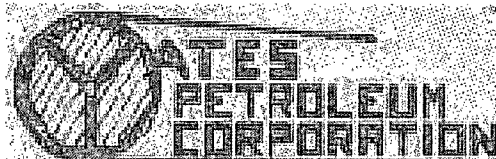
#1H

OH

Plan: Plan #1

Standard Planning Report

01 February, 2013





Planning Report



Database:	Houston R5000 Database	Local Co-ordinate Reference:	Well #1H
Company:	Yates Petroleum	TVD Reference:	WELL @ 3627.8usft (Cactus #124 - 25' KB)
Project:	Lea County, NM (NAD-83)	MD Reference:	WELL @ 3627.8usft (Cactus #124 - 25' KB)
Site:	Action BTI 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	Action BTI State Com		
Site Position:		Northing:	446,166.50 usft
From:	Lat/Long	Easting:	773,328.88 usft
Position Uncertainty:	2.0 usft	Slot Radius:	13-3/16 "
		Grid Convergence:	0.40 °

Well	#1H		
Well Position	+N/-S	0.0 usft	Latitude: 32° 13' 27.702 N
	+E/-W	0.0 usft	Longitude: 103° 34' 59.239 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level: 3,602.8 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF200510	2/1/2013	7.38
			Dip Angle (°)
			60.17
			Field Strength (nT)
			48,493

Design	Plan #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction (°)
			181.58

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	
10,742.5	0.00	0.00	10,742.5	0.0	0.0	0.00	0.00	0.00	0.00	
11,491.5	89.87	181.58	11,220.0	-476.2	-13.1	12.00	12.00	0.00	181.58	
11,491.8	89.87	181.58	11,220.0	-476.5	-13.1	2.00	-1.26	1.55	129.05	
15,771.7	89.87	181.58	11,230.0	-4,754.8	-131.5	0.00	0.00	0.00	0.00	PBHL (A#1H)



Planning Report



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Site:	Action BTI 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
1,275.0	0.00	0.00	1,275.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
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
1,600.0	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
1,755.0	0.00	0.00	1,755.0	0.0	0.0	0.0	0.00	0.00	0.00
T of Salt									
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
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
3,600.0	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
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



Planning Report



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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)
4,905.0	0.00	0.00	4,905.0	0.0	0.0	0.0	0.00	0.00	0.00
B of Salt									
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
5,150.0	0.00	0.00	5,150.0	0.0	0.0	0.0	0.00	0.00	0.00
Lamar									
5,190.0	0.00	0.00	5,190.0	0.0	0.0	0.0	0.00	0.00	0.00
Bell Canyon / T Delaware									
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
5,600.0	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
6,120.0	0.00	0.00	6,120.0	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
7,565.0	0.00	0.00	7,565.0	0.0	0.0	0.0	0.00	0.00	0.00
Brushy Canyon									
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
7,800.0	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
8,800.0	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
9,090.0	0.00	0.00	9,090.0	0.0	0.0	0.0	0.00	0.00	0.00
Bone Springs LM									



Planning Report



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Wellbore:	OH		
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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
9,235.0	0.00	0.00	9,235.0	0.0	0.0	0.0	0.00	0.00	0.00
Avalon									
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
9,900.0	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
10,140.0	0.00	0.00	10,140.0	0.0	0.0	0.0	0.00	0.00	0.00
1st BSPG S									
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
10,400.0	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
10,742.5	0.00	0.00	10,742.5	0.0	0.0	0.0	0.00	0.00	0.00
KOP: 10742.5' MD: 10742.5' TVD: 0.00° INC: 0.0° VS									
10,750.0	0.90	181.58	10,750.0	-0.1	0.0	0.1	12.00	12.00	0.00
10,775.0	3.90	181.58	10,775.0	-1.1	0.0	1.1	12.00	12.00	0.00
10,800.0	6.90	181.58	10,799.9	-3.5	-0.1	3.5	12.00	12.00	0.00
10,825.0	9.90	181.58	10,824.6	-7.1	-0.2	7.1	12.00	12.00	0.00
10,845.8	12.40	181.58	10,845.0	-11.1	-0.3	11.1	12.00	12.00	0.00
2nd BSPG S									
10,850.0	12.90	181.58	10,849.1	-12.0	-0.3	12.0	12.00	12.00	0.00
10,875.0	15.90	181.58	10,873.3	-18.3	-0.5	18.3	12.00	12.00	0.00
10,900.0	18.90	181.58	10,897.2	-25.7	-0.7	25.7	12.00	12.00	0.00
10,925.0	21.90	181.58	10,920.6	-34.4	-0.9	34.5	12.00	12.00	0.00
10,950.0	24.90	181.58	10,943.5	-44.4	-1.2	44.4	12.00	12.00	0.00
10,975.0	27.90	181.58	10,965.9	-55.5	-1.5	55.5	12.00	12.00	0.00
11,000.0	30.90	181.58	10,987.7	-67.7	-1.9	67.8	12.00	12.00	0.00
11,025.0	33.90	181.58	11,008.8	-81.1	-2.2	81.2	12.00	12.00	0.00
11,050.0	36.90	181.58	11,029.2	-95.6	-2.6	95.6	12.00	12.00	0.00
11,075.0	39.90	181.58	11,048.8	-111.1	-3.1	111.2	12.00	12.00	0.00
11,100.0	42.90	181.58	11,067.5	-127.6	-3.5	127.7	12.00	12.00	0.00
11,125.0	45.90	181.58	11,085.4	-145.1	-4.0	145.2	12.00	12.00	0.00
11,150.0	48.90	181.58	11,102.3	-163.5	-4.5	163.6	12.00	12.00	0.00
11,175.0	51.90	181.58	11,118.2	-182.8	-5.0	182.8	12.00	12.00	0.00
11,200.0	54.90	181.58	11,133.1	-202.8	-5.6	202.9	12.00	12.00	0.00
11,225.0	57.90	181.58	11,147.0	-223.6	-6.2	223.7	12.00	12.00	0.00
11,250.0	60.90	181.58	11,159.7	-245.1	-6.8	245.2	12.00	12.00	0.00
11,275.0	63.90	181.58	11,171.3	-267.3	-7.4	267.4	12.00	12.00	0.00
11,300.0	66.89	181.58	11,181.7	-290.0	-8.0	290.1	12.00	12.00	0.00
11,325.0	69.89	181.58	11,190.9	-313.2	-8.6	313.4	12.00	12.00	0.00
11,350.0	72.89	181.58	11,198.9	-336.9	-9.3	337.1	12.00	12.00	0.00
11,375.0	75.89	181.58	11,205.6	-361.0	-10.0	361.1	12.00	12.00	0.00
11,400.0	78.89	181.58	11,211.1	-385.4	-10.6	385.5	12.00	12.00	0.00
11,425.0	81.89	181.58	11,215.2	-410.0	-11.3	410.2	12.00	12.00	0.00



Planning Report



Database:	Houston R5000 Database	Local Co-ordinate Reference:	Well #1H
Company:	Yates Petroleum	TVD Reference:	WELL @ 3627.8usft (Cactus #124 - 25' KB)
Project:	Lea County, NM (NAD-83)	MD Reference:	WELL @ 3627.8usft (Cactus #124 - 25' KB)
Site:	Action BTI 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)
11,430.3	82.52	181.58	11,215.9	-415.2	-11.5	415.4	12.00	12.00	0.00
TRGT SPSSG									
11,450.0	84.89	181.58	11,218.1	-434.8	-12.0	435.0	12.00	12.00	0.00
11,475.0	87.89	181.58	11,219.7	-459.8	-12.7	459.9	12.00	12.00	0.00
11,491.5	89.87	181.58	11,220.0	-476.2	-13.1	476.4	12.00	12.00	0.00
11,491.8	89.87	181.58	11,220.0	-476.6	-13.1	476.7	1.88	-1.18	1.46
EOC - 11491.8 MD: 11220.0 TVD: 89.87° INC: 476.7° VS									
11,500.0	89.87	181.58	11,220.0	-484.8	-13.4	484.9	0.00	0.00	0.00
11,600.0	89.87	181.58	11,220.3	-584.7	-16.1	584.9	0.00	0.00	0.00
11,700.0	89.87	181.58	11,220.5	-684.7	-18.9	684.9	0.00	0.00	0.00
11,800.0	89.87	181.58	11,220.7	-784.6	-21.7	784.9	0.00	0.00	0.00
11,900.0	89.87	181.58	11,221.0	-884.6	-24.4	884.9	0.00	0.00	0.00
12,000.0	89.87	181.58	11,221.2	-984.6	-27.2	984.9	0.00	0.00	0.00
12,100.0	89.87	181.58	11,221.4	-1,084.5	-30.0	1,084.9	0.00	0.00	0.00
12,200.0	89.87	181.58	11,221.7	-1,184.5	-32.7	1,184.9	0.00	0.00	0.00
12,300.0	89.87	181.58	11,221.9	-1,284.5	-35.5	1,284.9	0.00	0.00	0.00
12,400.0	89.87	181.58	11,222.1	-1,384.4	-38.3	1,384.9	0.00	0.00	0.00
12,500.0	89.87	181.58	11,222.4	-1,484.4	-41.0	1,484.9	0.00	0.00	0.00
12,600.0	89.87	181.58	11,222.6	-1,584.3	-43.8	1,584.9	0.00	0.00	0.00
12,700.0	89.87	181.58	11,222.8	-1,684.3	-46.6	1,684.9	0.00	0.00	0.00
12,800.0	89.87	181.58	11,223.1	-1,784.3	-49.3	1,784.9	0.00	0.00	0.00
12,900.0	89.87	181.58	11,223.3	-1,884.2	-52.1	1,884.9	0.00	0.00	0.00
13,000.0	89.87	181.58	11,223.5	-1,984.2	-54.9	1,984.9	0.00	0.00	0.00
13,100.0	89.87	181.58	11,223.8	-2,084.1	-57.6	2,084.9	0.00	0.00	0.00
13,200.0	89.87	181.58	11,224.0	-2,184.1	-60.4	2,184.9	0.00	0.00	0.00
13,300.0	89.87	181.58	11,224.2	-2,284.1	-63.2	2,284.9	0.00	0.00	0.00
13,400.0	89.87	181.58	11,224.5	-2,384.0	-65.9	2,384.9	0.00	0.00	0.00
13,500.0	89.87	181.58	11,224.7	-2,484.0	-68.7	2,484.9	0.00	0.00	0.00
13,600.0	89.87	181.58	11,224.9	-2,584.0	-71.4	2,584.9	0.00	0.00	0.00
13,700.0	89.87	181.58	11,225.2	-2,683.9	-74.2	2,684.9	0.00	0.00	0.00
13,800.0	89.87	181.58	11,225.4	-2,783.9	-77.0	2,784.9	0.00	0.00	0.00
13,900.0	89.87	181.58	11,225.6	-2,883.8	-79.7	2,884.9	0.00	0.00	0.00
14,000.0	89.87	181.58	11,225.9	-2,983.8	-82.5	2,984.9	0.00	0.00	0.00
14,100.0	89.87	181.58	11,226.1	-3,083.8	-85.3	3,084.9	0.00	0.00	0.00
14,200.0	89.87	181.58	11,226.3	-3,183.7	-88.0	3,184.9	0.00	0.00	0.00
14,300.0	89.87	181.58	11,226.6	-3,283.7	-90.8	3,284.9	0.00	0.00	0.00
14,400.0	89.87	181.58	11,226.8	-3,383.6	-93.6	3,384.9	0.00	0.00	0.00
14,500.0	89.87	181.58	11,227.0	-3,483.6	-96.3	3,484.9	0.00	0.00	0.00
14,600.0	89.87	181.58	11,227.3	-3,583.6	-99.1	3,584.9	0.00	0.00	0.00
14,700.0	89.87	181.58	11,227.5	-3,683.5	-101.9	3,684.9	0.00	0.00	0.00
14,800.0	89.87	181.58	11,227.7	-3,783.5	-104.6	3,784.9	0.00	0.00	0.00
14,900.0	89.87	181.58	11,228.0	-3,883.4	-107.4	3,884.9	0.00	0.00	0.00
15,000.0	89.87	181.58	11,228.2	-3,983.4	-110.2	3,984.9	0.00	0.00	0.00
15,100.0	89.87	181.58	11,228.4	-4,083.4	-112.9	4,084.9	0.00	0.00	0.00
15,200.0	89.87	181.58	11,228.7	-4,183.3	-115.7	4,184.9	0.00	0.00	0.00
15,300.0	89.87	181.58	11,228.9	-4,283.3	-118.5	4,284.9	0.00	0.00	0.00
15,400.0	89.87	181.58	11,229.1	-4,383.3	-121.2	4,384.9	0.00	0.00	0.00
15,500.0	89.87	181.58	11,229.4	-4,483.2	-124.0	4,484.9	0.00	0.00	0.00
15,600.0	89.87	181.58	11,229.6	-4,583.2	-126.8	4,584.9	0.00	0.00	0.00
15,700.0	89.87	181.58	11,229.8	-4,683.1	-129.5	4,684.9	0.00	0.00	0.00
15,771.7	89.87	181.58	11,230.0	-4,754.8	-131.5	4,756.6	0.00	0.00	0.00
TD @ 15771.7 MD: 11230.0 TVD									



Planning Report



Database:	Houston R5000 Database	Local Co-ordinate Reference:	Well #1H
Company:	Yates Petroleum	TVD Reference:	WELL @ 3627.8usft (Cactus #124 - 25' KB)
Project:	Lea County, NM (NAD-83)	MD Reference:	WELL @ 3627.8usft (Cactus #124 - 25' KB)
Site:	Action BTI State Com	North Reference:	Grid
Well:	#1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
Shape									
PBHL (A#1H)	0.00	0.00	11,230.0	-4,754.8	-131.5	441,411.67	773,197.37	32° 12' 40.661 N	103° 35' 1.156 W
- plan hits target center									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
1,275.0	1,275.0	Rustler		0.13	181.58	
1,755.0	1,755.0	T of Salt		0.13	181.58	
4,905.0	4,905.0	B of Salt		0.13	181.58	
5,150.0	5,150.0	Lamar		0.13	181.58	
5,190.0	5,190.0	Bell Canyon / T Delaware		0.13	181.58	
6,120.0	6,120.0	Cherry Canyon		0.13	181.58	
7,565.0	7,565.0	Brushy Canyon		0.13	181.58	
9,090.0	9,090.0	Bone Springs LM		0.13	181.58	
9,235.0	9,235.0	Avalon		0.13	181.58	
10,140.0	10,140.0	1st BSPG S		0.13	181.58	
10,845.8	10,845.0	2nd BSPG S		0.13	181.58	
11,430.3	11,215.9	**TRGT SPSG**		0.13	181.58	

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
10,742.5	10,742.5	0.0	0.0	KOP - 10742.5' MD, 10742.5' TVD, 0.00° INC, 0.0' VS
11,491.8	11,220.0	-476.6	-13.1	EOC - 11491.8' MD, 11220.0' TVD, 89.87° INC, 476.7' VS
15,771.7	11,230.0	-4,754.8	-131.5	TD @ 15771.7' MD, 11230.0' TVD



WELL DETAILS: #1H

Ground Elevation:: 3602.8
RKB Elevation: WELL @ 3627.8usft (Cactus #124 - 25' KB)
Rig Name: Cactus #124 - 25' KB

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

Surface Hole Location
Northing Easting Latitude Longitude
446166.50 773328.88 32° 13' 27.702 N 103° 34' 59.239 W



Azimuths to Grid North
True North: -0.40°
Magnetic North: 6.98°

Magnetic Field
Strength: 48493.3snT
Dip Angle: 60.17°
Date: 2/1/2013
Model: IGRF200510

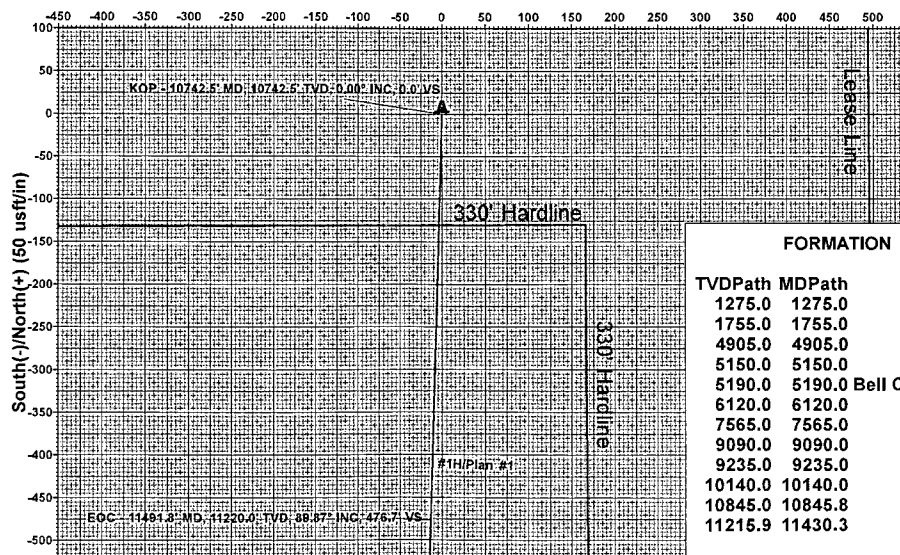
DESIGN TARGET DETAILS

Name TVD +N/-S +E/-W Northing Easting
PBHL (A#1H) 11230.0 -4754.8 -131.5 441411.67 773197.37

Section Details

	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	10742.5	0.00	0.00	10742.5	0.0	0.0	0.00	0.00	0.0	
3	11491.5	89.87	181.58	11220.0	-476.2	-13.1	12.00	181.58	476.4	
4	11491.8	89.87	181.58	11220.0	-476.5	-13.1	2.00	129.05	476.7	
5	15771.7	89.87	181.58	11230.0	-4754.8	-131.5	0.00	0.00	4756.6	PBHL (A#1H)

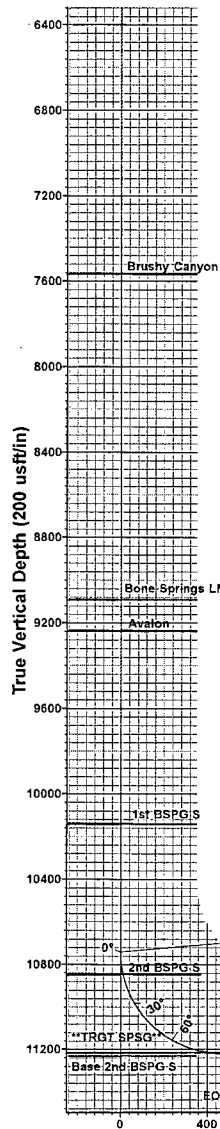
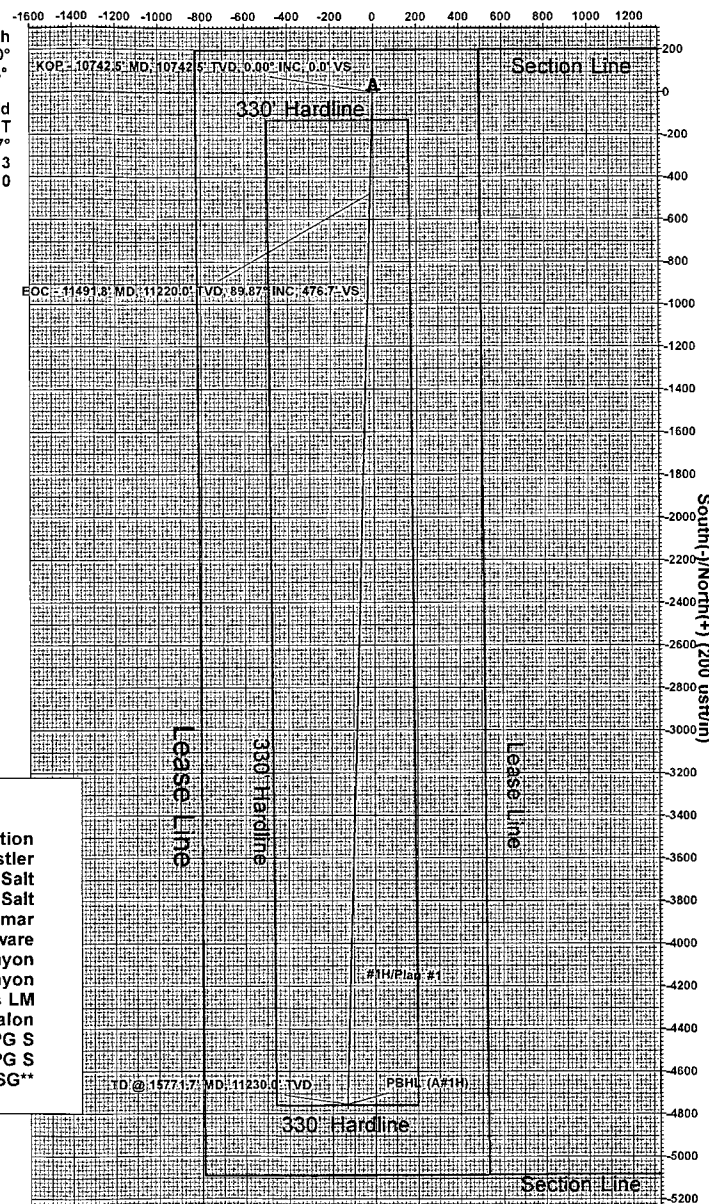
West(-)/East(+) (50 usft/in)



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1275.0	1275.0	Rustler
1755.0	1755.0	T of Salt
4905.0	4905.0	B of Salt
5150.0	5150.0	Lamar
5190.0	5190.0	Bell Canyon / T Delaware
6120.0	6120.0	Cherry Canyon
7565.0	7565.0	Brushy Canyon
9090.0	9090.0	Bone Springs LM
9235.0	9235.0	Avalon
10140.0	10140.0	1st BSPG S
10845.0	10845.8	2nd BSPG S
11215.9	11430.3	**TRGT SPSG**

West(-)/East(+) (200 usft/in)



Vertical Section at 181.58° (200 usft/in)

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

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

Plan: Plan #1 (#1H/OH)
Created By: Matt Higgins Date: 16:21, February 05 2013

