

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

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

Form C-103
Revised August 1, 2011

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.)		WELL API NO. 30-025-40489
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator Yates Petroleum Corporation		6. State Oil & Gas Lease No.
3. Address of Operator 105 S. 4 th Street, Artesia, NM 88210		7. Lease Name or Unit Agreement Name Hemlock BSH State #1H
4. Well Location Unit Letter <u>N</u> : <u>330</u> ' feet from the <u>North</u> line and <u>1980</u> ' feet from the <u>West</u> line Section <u>32</u> Township <u>23S</u> Range <u>33E</u> NMPM County <u>Lea</u>		8. Well Number #1H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3667' GR		9. OGRID Number
		10. Pool name or Wildcat Undesignated Second Bone Springs

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 ☐

SUBSEQUENT REPORT OF:

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

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 respectfully requests permission to change the target formation to the Second Bone Springs Sand at 11150' TVD (15577' MD). The production string design will change as follows:

Casing: 17# 5 1/2" P-110 LT&C 0-10600', 17# 5 1/2" P-110 BT&C 10600'-15577'

Mud. Cut Brine from 5150'-15577', WT 8.8 - 9.2 Visc. 28 - 32

Cement:

Stage 1: Lead - 665 sx of 35:65:6 Poz C (WT 12.5 YLD 2.0), Tail - 1010 sx of PVL (WT 13 YLD 1.41) 15577'-7500'

Stage 2: Lead - 350 sx of 35:65:6 Poz C (WT 12.5 YLD 2.0), Tail - 200 sx of PVL (WT 13 YLD 1.41) 7500' - 4650'

DV Tool = Approx. 7500', Cement calculated with 35% excess

Please see attached for revised formation tops and directional plan.

Spud Date:

8-20-12

Rig Release Date:

8-20-13

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

SIGNATURE

TITLE Well Planner

DATE 8-8-12

Type or print name Troy M. Peterson

E-mail address: tpeterson@yatespetroleum.com PHONE: 575-748-4211

APPROVED BY:

TITLE

PETROLEUM ENGINEER

DATE

AUG 08 2012

Conditions of Approval (if any):

AUG 08 2012

Formation	Hemlock Depth	est Subsea	KB	23-33s32 3680	SBSG Target
Rustler	1270	2410			section 32
BOS	4860	-1180		surf	330 FnL, 1980FwL
Bell Canyon	5150	-1470		Bhl	330 FSL 1980 FwL
Cherry Canyon	6180	-2500			
Brushy Canyon	7470	-3790			
Brushy Canyon Mkr	8780	-5100			
Bone Spring	8970	-5290			
First BSPG Sand	10050	-6370			
Second BSPG Sand	10900	-7220			
Target SBSG Sand	11150	-7470			
No pilot hole					
PTD	15650				

4500 Lateral

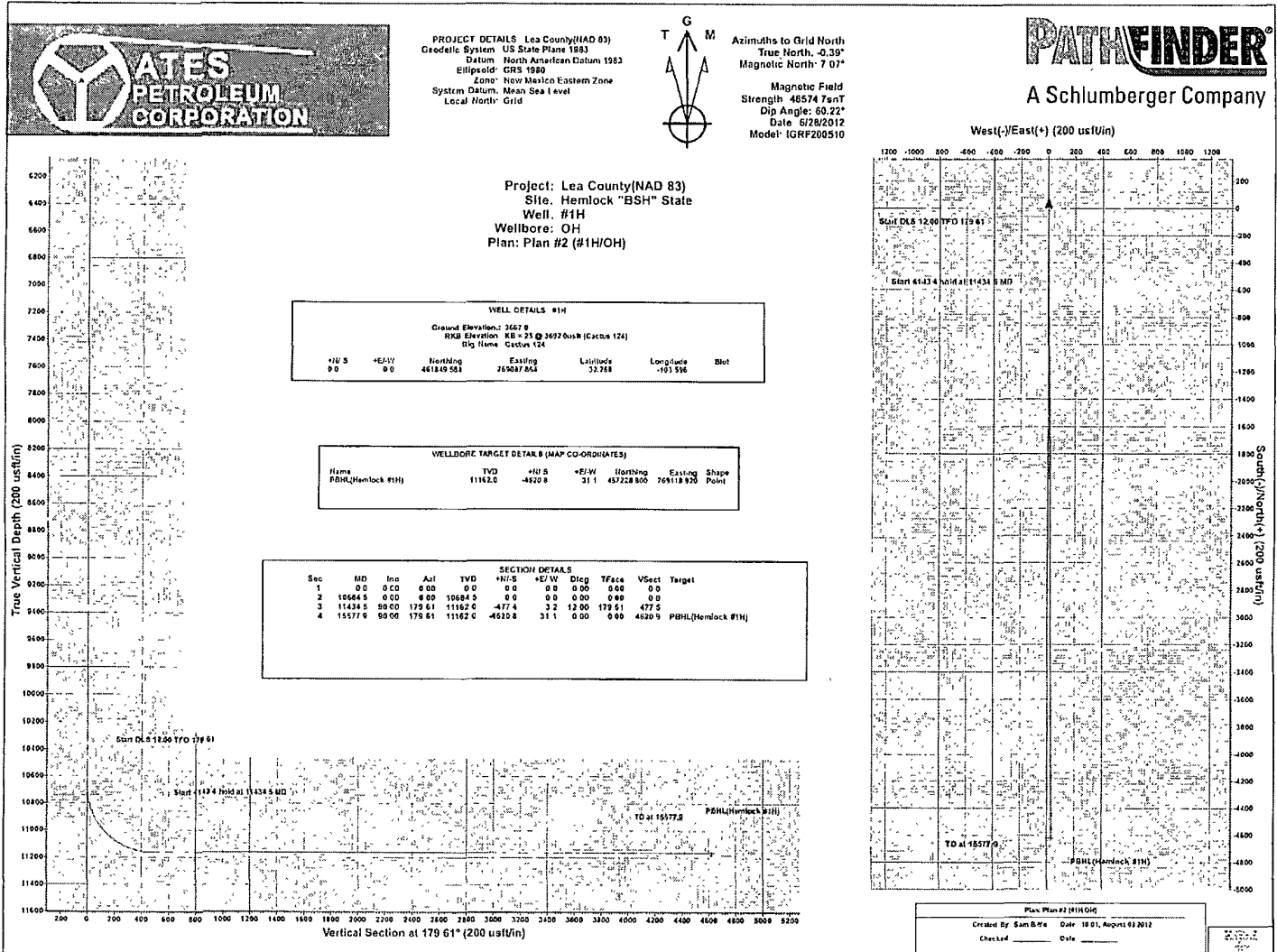
Expiring lease 6/2012

Mudlog from 4000'.
Platform express CMR to curve.

HOBBS OCD

AUG 08 2012

RECEIVED





A Schlumberger Company

Yates Petroleum Corp.

Lea County(NAD 83)
Hemlock "BSH" State
#1H
OH

Plan: Plan #2

Pathfinder X&Y Report

08 August, 2012





Pathfinder Pathfinder X&Y Report



Company: Yates Petroleum Corp.
Project: Lea County(NAD 83)
Site: Hemlock "BSH" State
Well: #1H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #1H
TVD Reference: KB = 25 @ 3692.0usft (Cactus 124)
MD Reference: KB = 25 @ 3692.0usft (Cactus 124)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000 1 Single User Db

Project	Lea County(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	Hemlock "BSH" State				
Site Position		Northing	461,849.584 usft	Latitude	32.288
From: Map		Easting	769,087.864 usft	Longitude	-103.596
Position Uncertainty:	0.0 usft	Slot Radius	13-3/16 "	Grid Convergence:	0.39 "

Well	#1H					
Well Position	+N/-S	0.0 usft	Northing:	461,849.584 usft	Latitude:	32.268
	+E/-W	0.0 usft	Easting:	769,087.864 usft	Longitude:	-103.596
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level:	3,607.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	6/28/2012	7.47	60.22	48,575

Design	Plan #2				
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	179.61	

Survey Tool Program	Date	8/6/2012			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	15,577.9	Plan #2 (OH)	MWD	MWD - Standard	



A Schlumberger Company

Pathfinder
Pathfinder X&Y Report



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Project: Lea County (NAD 83)
Site: Hemlock "BSH" State
Well: #1H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #1H
TVD Reference: KB = 25 @ 3692.0usft (Cactus 124)
MD Reference: KB = 25 @ 3692.0usft (Cactus 124)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000 1 Single User Db

Planned Survey											
MD (usft)	Inc (")	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	EW (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
0 0	0 00	0 00	0 0	-3,692 0	0 0	0 0	0 0	0 00	461,849 58	769,087 86	
100 0	0 00	0 00	100 0	-3,592 0	0 0	0 0	0 0	0 00	461,849 58	769,087 86	
200 0	0 00	0 00	200 0	-3,492 0	0 0	0 0	0 0	0 00	461,849 58	769,087 86	
300 0	0 00	0 00	300 0	-3,392 0	0 0	0 0	0 0	0 00	461,849 58	769,087 86	
400 0	0 00	0 00	400 0	-3,292 0	0 0	0 0	0 0	0 00	461,849 58	769,087 86	
500 0	0 00	0 00	500 0	-3,192 0	0 0	0 0	0 0	0 00	461,849 58	769,087 86	
600 0	0 00	0 00	600 0	-3,092 0	0 0	0 0	0 0	0 00	461,849 58	769,087 86	
700 0	0 00	0 00	700 0	-2,992 0	0 0	0 0	0 0	0 00	461,849 58	769,087 86	
800 0	0 00	0 00	800 0	-2,892 0	0 0	0 0	0 0	0 00	461,849 58	769,087 86	
900 0	0 00	0 00	900 0	-2,792 0	0 0	0 0	0 0	0 00	461,849 58	769,087 86	
1,000 0	0 00	0 00	1,000 0	-2,692 0	0 0	0 0	0 0	0 00	461,849 58	769,087 86	
1,100 0	0 00	0 00	1,100 0	-2,592 0	0 0	0 0	0 0	0 00	461,849 58	769,087 86	
1,200 0	0 00	0 00	1,200 0	-2,492 0	0 0	0 0	0 0	0 00	461,849 58	769,087 86	
1,300 0	0 00	0 00	1,300 0	-2,392 0	0 0	0 0	0 0	0 00	461,849 58	769,087 86	
1,400 0	0 00	0 00	1,400 0	-2,292 0	0 0	0 0	0 0	0 00	461,849 58	769,087 86	
1,500 0	0 00	0 00	1,500 0	-2,192 0	0 0	0 0	0 0	0 00	461,849 58	769,087 86	
1,600 0	0 00	0 00	1,600 0	-2,092 0	0 0	0 0	0 0	0 00	461,849 58	769,087 86	
1,700 0	0 00	0 00	1,700 0	-1,992 0	0 0	0 0	0 0	0 00	461,849 58	769,087 86	
1,800 0	0 00	0 00	1,800 0	-1,892 0	0 0	0 0	0 0	0 00	461,849 58	769,087 86	
1,900 0	0 00	0 00	1,900 0	-1,792 0	0 0	0 0	0 0	0 00	461,849 58	769,087 86	
2,000 0	0 00	0 00	2,000 0	-1,692 0	0 0	0 0	0 0	0 00	461,849 58	769,087 86	
2,100 0	0 00	0 00	2,100 0	-1,592 0	0 0	0 0	0 0	0 00	461,849 58	769,087 86	
2,200 0	0 00	0 00	2,200 0	-1,492 0	0 0	0 0	0 0	0 00	461,849 58	769,087 86	
2,300 0	0 00	0 00	2,300 0	-1,392 0	0 0	0 0	0 0	0 00	461,849 58	769,087 86	
2,400 0	0 00	0 00	2,400 0	-1,292 0	0 0	0 0	0 0	0 00	461,849 58	769,087 86	
2,500 0	0 00	0 00	2,500 0	-1,192 0	0 0	0 0	0 0	0 00	461,849 58	769,087 86	
2,600 0	0 00	0 00	2,600 0	-1,092 0	0 0	0 0	0 0	0 00	461,849 58	769,087 86	



Pathfinder
Pathfinder X&Y Report



Company: Yates Petroleum Corp
Project: Lea County (NAD 83)
Site: Hemlock "BSH" State
Well: #1H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #1H
KB = 25 @ 3692.0usft (Cactus 124)
KB = 25 @ 3692.0usft (Cactus 124)
Grid
Minimum Curvature
EDM 5000 1 Single User Db

Planned Survey												
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)		
2,700.0	0.00	0.00	2,700.0	-992.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86		
2,800.0	0.00	0.00	2,800.0	-892.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86		
2,900.0	0.00	0.00	2,900.0	-792.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86		
3,000.0	0.00	0.00	3,000.0	-692.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86		
3,100.0	0.00	0.00	3,100.0	-592.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86		
3,200.0	0.00	0.00	3,200.0	-492.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86		
3,300.0	0.00	0.00	3,300.0	-392.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86		
3,400.0	0.00	0.00	3,400.0	-292.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86		
3,500.0	0.00	0.00	3,500.0	-192.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86		
3,600.0	0.00	0.00	3,600.0	-92.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86		
3,700.0	0.00	0.00	3,700.0	8.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86		
3,800.0	0.00	0.00	3,800.0	108.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86		
3,900.0	0.00	0.00	3,900.0	208.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86		
4,000.0	0.00	0.00	4,000.0	308.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86		
4,100.0	0.00	0.00	4,100.0	408.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86		
4,200.0	0.00	0.00	4,200.0	508.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86		
4,300.0	0.00	0.00	4,300.0	608.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86		
4,400.0	0.00	0.00	4,400.0	708.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86		
4,500.0	0.00	0.00	4,500.0	808.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86		
4,600.0	0.00	0.00	4,600.0	908.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86		
4,700.0	0.00	0.00	4,700.0	1,008.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86		
4,800.0	0.00	0.00	4,800.0	1,108.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86		
4,900.0	0.00	0.00	4,900.0	1,208.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86		
5,000.0	0.00	0.00	5,000.0	1,308.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86		
5,100.0	0.00	0.00	5,100.0	1,408.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86		
5,200.0	0.00	0.00	5,200.0	1,508.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86		
5,300.0	0.00	0.00	5,300.0	1,608.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86		



A Schlumberger Company

Pathfinder
Pathfinder X&Y Report



Company: Yates Petroleum Corp
Project: Lea County(NAD 83)
Site: Hemlock "BSH" State
Well: #111
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #111
TVD Reference: KB = 25 @ 3692.0usft (Cactus 124)
MD Reference: KB = 25 @ 3692.0usft (Cactus 124)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000 1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	O. Leg (°/100usft)	Northing (usft)	Easting (usft)
5,400.0	0.00	0.00	5,400.0	1,708.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86
5,500.0	0.00	0.00	5,500.0	1,808.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86
5,600.0	0.00	0.00	5,600.0	1,908.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86
5,700.0	0.00	0.00	5,700.0	2,008.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86
5,800.0	0.00	0.00	5,800.0	2,108.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86
5,900.0	0.00	0.00	5,900.0	2,208.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86
6,000.0	0.00	0.00	6,000.0	2,308.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86
6,100.0	0.00	0.00	6,100.0	2,408.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86
6,200.0	0.00	0.00	6,200.0	2,508.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86
6,300.0	0.00	0.00	6,300.0	2,608.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86
6,400.0	0.00	0.00	6,400.0	2,708.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86
6,500.0	0.00	0.00	6,500.0	2,808.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86
6,600.0	0.00	0.00	6,600.0	2,908.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86
6,700.0	0.00	0.00	6,700.0	3,008.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86
6,800.0	0.00	0.00	6,800.0	3,108.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86
6,900.0	0.00	0.00	6,900.0	3,208.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86
7,000.0	0.00	0.00	7,000.0	3,308.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86
7,100.0	0.00	0.00	7,100.0	3,408.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86
7,200.0	0.00	0.00	7,200.0	3,508.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86
7,300.0	0.00	0.00	7,300.0	3,608.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86
7,400.0	0.00	0.00	7,400.0	3,708.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86
7,500.0	0.00	0.00	7,500.0	3,808.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86
7,600.0	0.00	0.00	7,600.0	3,908.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86
7,700.0	0.00	0.00	7,700.0	4,008.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86
7,800.0	0.00	0.00	7,800.0	4,108.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86
7,900.0	0.00	0.00	7,900.0	4,208.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86
8,000.0	0.00	0.00	8,000.0	4,308.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86



Pathfinder Pathfinder X&Y Report



Company: Yates Petroleum Corp
Project: Lea County (NAD 83)
Site: Hemlock "BSH" State
Well: #1H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #1H
TVD Reference: KB = 25 @ 3692 0usft (Cactus 124)
MD Reference: KB = 25 @ 3692 0usft (Cactus 124)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000 1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)	
8,100.0	0.00	0.00	8,100.0	4,408.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86	
8,200.0	0.00	0.00	8,200.0	4,508.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86	
8,300.0	0.00	0.00	8,300.0	4,608.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86	
8,400.0	0.00	0.00	8,400.0	4,708.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86	
8,500.0	0.00	0.00	8,500.0	4,808.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86	
8,600.0	0.00	0.00	8,600.0	4,908.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86	
8,700.0	0.00	0.00	8,700.0	5,008.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86	
8,800.0	0.00	0.00	8,800.0	5,108.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86	
8,900.0	0.00	0.00	8,900.0	5,208.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86	
9,000.0	0.00	0.00	9,000.0	5,308.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86	
9,100.0	0.00	0.00	9,100.0	5,408.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86	
9,200.0	0.00	0.00	9,200.0	5,508.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86	
9,300.0	0.00	0.00	9,300.0	5,608.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86	
9,400.0	0.00	0.00	9,400.0	5,708.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86	
9,500.0	0.00	0.00	9,500.0	5,808.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86	
9,600.0	0.00	0.00	9,600.0	5,908.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86	
9,700.0	0.00	0.00	9,700.0	6,008.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86	
9,800.0	0.00	0.00	9,800.0	6,108.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86	
9,900.0	0.00	0.00	9,900.0	6,208.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86	
10,000.0	0.00	0.00	10,000.0	6,308.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86	
10,100.0	0.00	0.00	10,100.0	6,408.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86	
10,200.0	0.00	0.00	10,200.0	6,508.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86	
10,300.0	0.00	0.00	10,300.0	6,608.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86	
10,400.0	0.00	0.00	10,400.0	6,708.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86	
10,500.0	0.00	0.00	10,500.0	6,808.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86	
10,600.0	0.00	0.00	10,600.0	6,908.0	0.0	0.0	0.0	0.00	461,849.58	769,087.86	
10,684.5	0.00	0.00	10,684.5	6,992.5	0.0	0.0	0.0	0.00	461,849.58	769,087.86	



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Pathfinder Pathfinder X&Y Report



Company: Yates Petroleum Corp
Project: Lea County (NAD 83)
Site: Hemlock "BSH" State
Well: #1H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #1H
TVD Reference: KB = 25 @ 3692.0usft (Cactus 124)
MD Reference: KB = 25 @ 3692.0usft (Cactus 124)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000 1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)	
10,700.0	1.86	179.61	10,700.0	7,008.0	-0.3	0.0	0.3	12.00	461,849.33	769,087.87	
10,725.0	4.86	179.61	10,725.0	7,033.0	-1.7	0.0	1.7	12.00	461,847.87	769,087.88	
10,750.0	7.86	179.61	10,749.8	7,057.8	-4.5	0.0	4.5	12.00	461,845.10	769,087.89	
10,775.0	10.86	179.61	10,774.5	7,082.5	-8.6	0.1	8.6	12.00	461,841.03	769,087.92	
10,800.0	13.86	179.61	10,798.9	7,106.9	-13.9	0.1	13.9	12.00	461,835.68	769,087.98	
10,825.0	16.86	179.61	10,823.0	7,131.0	-20.5	0.1	20.5	12.00	461,829.06	769,088.00	
10,850.0	19.86	179.61	10,846.7	7,154.7	-28.4	0.2	28.4	12.00	461,821.19	769,088.05	
10,875.0	22.86	179.61	10,870.0	7,178.0	-37.5	0.3	37.5	12.00	461,812.08	769,088.12	
10,900.0	25.86	179.61	10,892.8	7,200.8	-47.8	0.3	47.8	12.00	461,801.77	769,088.19	
10,925.0	28.86	179.61	10,915.0	7,223.0	-59.3	0.4	59.3	12.00	461,790.29	769,088.26	
10,950.0	31.86	179.61	10,936.5	7,244.5	-71.9	0.5	71.9	12.00	461,777.65	769,088.35	
10,975.0	34.86	179.61	10,957.4	7,265.4	-85.7	0.6	85.7	12.00	461,763.91	769,088.44	
11,000.0	37.86	179.61	10,977.5	7,285.5	-100.5	0.7	100.5	12.00	461,749.09	769,088.54	
11,025.0	40.86	179.61	10,996.9	7,304.9	-116.4	0.8	116.4	12.00	461,733.33	769,088.65	
11,050.0	43.86	179.61	11,015.3	7,323.3	-133.2	0.9	133.2	12.00	461,716.39	769,088.76	
11,075.0	46.86	179.61	11,032.9	7,340.9	-151.0	1.0	151.0	12.00	461,698.61	769,088.88	
11,100.0	49.86	179.61	11,049.5	7,357.5	-169.7	1.1	169.7	12.00	461,679.92	769,089.00	
11,125.0	52.86	179.61	11,065.1	7,373.1	-189.2	1.3	189.2	12.00	461,660.40	769,089.14	
11,150.0	55.86	179.61	11,079.7	7,387.7	-209.5	1.4	209.5	12.00	461,640.09	769,089.27	
11,175.0	58.86	179.61	11,093.2	7,401.2	-230.5	1.5	230.6	12.00	461,619.04	769,089.41	
11,200.0	61.86	179.61	11,105.5	7,413.5	-252.3	1.7	252.3	12.00	461,597.31	769,089.56	
11,225.0	64.86	179.61	11,116.7	7,424.7	-274.6	1.8	274.6	12.00	461,574.97	769,089.71	
11,250.0	67.86	179.61	11,126.8	7,434.8	-297.5	2.0	297.5	12.00	461,552.07	769,089.86	
11,275.0	70.86	179.61	11,135.6	7,443.6	-320.9	2.2	320.9	12.00	461,528.68	769,090.02	
11,300.0	73.86	179.61	11,143.1	7,451.1	-344.7	2.3	344.7	12.00	461,504.86	769,090.18	
11,325.0	76.86	179.61	11,149.5	7,457.5	-368.9	2.5	368.9	12.00	461,480.67	769,090.34	
11,350.0	79.86	179.61	11,154.5	7,462.5	-393.4	2.6	393.4	12.00	461,456.19	769,090.51	



A Schlumberger Company

Pathfinder
Pathfinder X&Y Report



Company: Yates Petroleum Corp.
Project: Lea County (NAD 83)
Site: Hemlock "BSH" State
Well: #1H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #1H
KB = 25 @ 3692 Ousft (Cactus 124)
KB = 25 @ 3692 Ousft (Cactus 124)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)
11,375.0	82.86	179.61	11,158.3	7,466.3	-418.1	2.8	418.1	12.00	461,431.47	769,090.67
11,400.0	85.86	179.61	11,160.7	7,468.7	-443.0	3.0	443.0	12.00	461,406.60	769,090.84
11,425.0	88.86	179.61	11,161.9	7,469.9	-468.0	3.1	468.0	12.00	461,381.63	769,091.01
11,434.5	90.00	179.61	11,162.0	7,470.0	-477.4	3.2	477.5	12.00	461,372.13	769,091.07
11,500.0	90.00	179.61	11,162.0	7,470.0	-543.0	3.6	543.0	0.00	461,306.63	769,091.51
11,600.0	90.00	179.61	11,162.0	7,470.0	-643.0	4.3	643.0	0.00	461,206.63	769,092.19
11,700.0	90.00	179.61	11,162.0	7,470.0	-742.9	5.0	743.0	0.00	461,106.64	769,092.86
11,800.0	90.00	179.61	11,162.0	7,470.0	-842.9	5.7	843.0	0.00	461,006.64	769,093.53
11,900.0	90.00	179.61	11,162.0	7,470.0	-942.9	6.3	943.0	0.00	460,906.64	769,094.20
12,000.0	90.00	179.61	11,162.0	7,470.0	-1,042.9	7.0	1,043.0	0.00	460,806.64	769,094.87
12,100.0	90.00	179.61	11,162.0	7,470.0	-1,142.9	7.7	1,143.0	0.00	460,706.64	769,095.55
12,200.0	90.00	179.61	11,162.0	7,470.0	-1,242.9	8.4	1,243.0	0.00	460,606.65	769,096.22
12,300.0	90.00	179.61	11,162.0	7,470.0	-1,342.9	9.0	1,343.0	0.00	460,506.65	769,096.89
12,400.0	90.00	179.61	11,162.0	7,470.0	-1,442.9	9.7	1,443.0	0.00	460,406.65	769,097.56
12,500.0	90.00	179.61	11,162.0	7,470.0	-1,542.9	10.4	1,543.0	0.00	460,306.65	769,098.23
12,600.0	90.00	179.61	11,162.0	7,470.0	-1,642.9	11.0	1,643.0	0.00	460,206.66	769,098.91
12,700.0	90.00	179.61	11,162.0	7,470.0	-1,742.9	11.7	1,743.0	0.00	460,106.66	769,099.58
12,800.0	90.00	179.61	11,162.0	7,470.0	-1,842.9	12.4	1,843.0	0.00	460,006.66	769,100.25
12,900.0	90.00	179.61	11,162.0	7,470.0	-1,942.9	13.1	1,943.0	0.00	459,906.66	769,100.92
13,000.0	90.00	179.61	11,162.0	7,470.0	-2,042.9	13.7	2,043.0	0.00	459,806.67	769,101.59
13,100.0	90.00	179.61	11,162.0	7,470.0	-2,142.9	14.4	2,143.0	0.00	459,706.67	769,102.27
13,200.0	90.00	179.61	11,162.0	7,470.0	-2,242.9	15.1	2,243.0	0.00	459,606.67	769,102.94
13,300.0	90.00	179.61	11,162.0	7,470.0	-2,342.9	15.7	2,343.0	0.00	459,506.67	769,103.61
13,400.0	90.00	179.61	11,162.0	7,470.0	-2,442.9	16.4	2,443.0	0.00	459,406.67	769,104.28
13,500.0	90.00	179.61	11,162.0	7,470.0	-2,542.9	17.1	2,543.0	0.00	459,306.68	769,104.95
13,600.0	90.00	179.61	11,162.0	7,470.0	-2,642.9	17.8	2,643.0	0.00	459,206.68	769,105.63
13,700.0	90.00	179.61	11,162.0	7,470.0	-2,742.9	18.4	2,743.0	0.00	459,106.68	769,106.30



A Schlumberger Company

Pathfinder
Pathfinder X&Y Report



Company: Yates Petroleum Corp
Project: Lea County(NAD 83)
Site: Hemlock "BSH" State
Well: #1H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference:
TVD Reference: KB = 25 @ 3692 0usft (Cactus 124)
MD Reference: KB = 25 @ 3692 0usft (Cactus 124)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000 1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	EW (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
13,800.0	90.00	179.61	11,162.0	7,470.0	-2,842.9	19.1	2,843.0	0.00	459,006.68	769,106.97	
13,900.0	90.00	179.61	11,162.0	7,470.0	-2,842.9	19.8	2,943.0	0.00	458,906.69	769,107.64	
14,000.0	90.00	179.61	11,162.0	7,470.0	-3,042.9	20.5	3,043.0	0.00	458,806.69	769,108.32	
14,100.0	90.00	179.61	11,162.0	7,470.0	-3,142.9	21.1	3,143.0	0.00	458,706.69	769,109.99	
14,200.0	90.00	179.61	11,162.0	7,470.0	-3,242.9	21.8	3,243.0	0.00	458,606.69	769,109.66	
14,300.0	90.00	179.61	11,162.0	7,470.0	-3,342.9	22.5	3,343.0	0.00	458,506.69	769,110.33	
14,400.0	90.00	179.61	11,162.0	7,470.0	-3,442.9	23.1	3,443.0	0.00	458,406.70	769,111.00	
14,500.0	90.00	179.61	11,162.0	7,470.0	-3,542.9	23.8	3,543.0	0.00	458,306.70	769,111.68	
14,600.0	90.00	179.61	11,162.0	7,470.0	-3,642.9	24.5	3,643.0	0.00	458,206.70	769,112.35	
14,700.0	90.00	179.61	11,162.0	7,470.0	-3,742.9	25.2	3,743.0	0.00	458,106.70	769,113.02	
14,800.0	90.00	179.61	11,162.0	7,470.0	-3,842.9	25.8	3,843.0	0.00	458,006.71	769,113.69	
14,900.0	90.00	179.61	11,162.0	7,470.0	-3,942.9	26.5	3,943.0	0.00	457,906.71	769,114.36	
15,000.0	90.00	179.61	11,162.0	7,470.0	-4,042.9	27.2	4,043.0	0.00	457,806.71	769,115.04	
15,100.0	90.00	179.61	11,162.0	7,470.0	-4,142.9	27.8	4,143.0	0.00	457,706.71	769,115.71	
15,200.0	90.00	179.61	11,162.0	7,470.0	-4,242.9	28.5	4,243.0	0.00	457,606.71	769,116.38	
15,300.0	90.00	179.61	11,162.0	7,470.0	-4,342.9	29.2	4,343.0	0.00	457,506.72	769,117.05	
15,400.0	90.00	179.61	11,162.0	7,470.0	-4,442.9	29.9	4,443.0	0.00	457,406.72	769,117.72	
15,500.0	90.00	179.61	11,162.0	7,470.0	-4,542.9	30.5	4,543.0	0.00	457,306.72	769,118.40	
15,577.9	90.00	179.61	11,162.0	7,470.0	-4,620.8	31.1	4,620.9	0.00	457,228.80	769,118.92	

Checked By _____ Approved By _____ Date: _____