

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. 30-015-39858
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. V-3459
7. Lease Name or Unit Agreement Name Southland Royalty APM State
8. Well Number 3H
9. OGRID Number 025575
10. Pool name or Wildcat 2nd Bone Springs Sand TURKEY TRACK, BS. <i><6066></i>

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. 4th St. Artesia, NM 88210

4. Well Location
Unit Letter O : 200 feet from the South line and 1800 feet from the East line
Section 24 Township 19S Range 29E NMPM Eddy County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3,363'

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: ☐

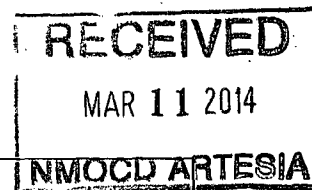
13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Yates Petroleum Corporation respectfully requests to make the following changes to our approved APD as per the attached paperwork.

Thank you,

Spud Date:

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 3/10/14

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

For State Use Only

APPROVED BY: T.C. Shepard TITLE "Geologist" DATE 3-11-2014
Conditions of Approval (if any):

Southland Royalty APM State #3H

Conductor:

Hole will be drilled with a 30" bit to a depth of approx. 150'. Hole size will then be reduced to 24" and drilled to approx. 200' where 20" casing (casing weight and grade will remain the same) will be set and cemented to surface with ready-mix. TOC=0'.

Intermediate:

Hole will be drilled with a 12 1/4" bit to a depth of approx. 3700' where 9 5/8" casing (cement grade and weight will remain the same) will be set and cemented to surface in 2 stages with a DV/Packer Stage tool at approx. 1600'-1900' (cement volumes will be adjusted according to tool placement).

1st stage-Cemented with approx. 665sx cement, 100% excess TOC= approx. 1800'

2nd stage-Cemented with approx. 635sx cement, 100% excess TOC=0'

Production:

Well will be drilled vertically to 7772'. Well will then be kicked off at 7772' and directionally drilled at 12 degrees per 100' with an 8 3/4" hole to 8539' MD (8249' TVD). Hole size will then be reduced to 8 1/2" and drilled 100' past the 330' hardline to 12899' MD (8157' TVD).

Production string will be cemented to surface in 3 stages with DV/packer stage tool at approx. 7400'-7700' and 3800'-4100' (cement volumes will be adjusted per tool placement).

Penetration point of the producing zone will be encountered at 694' FSL & 1820' FEL, 24-19S-29E. Deepest TVD is 8249' in the lateral.

Production casing will be 5 1/2" 17# P-110 and cemented to surface with approx. 2350sx cement (35% excess)

Contingency change:

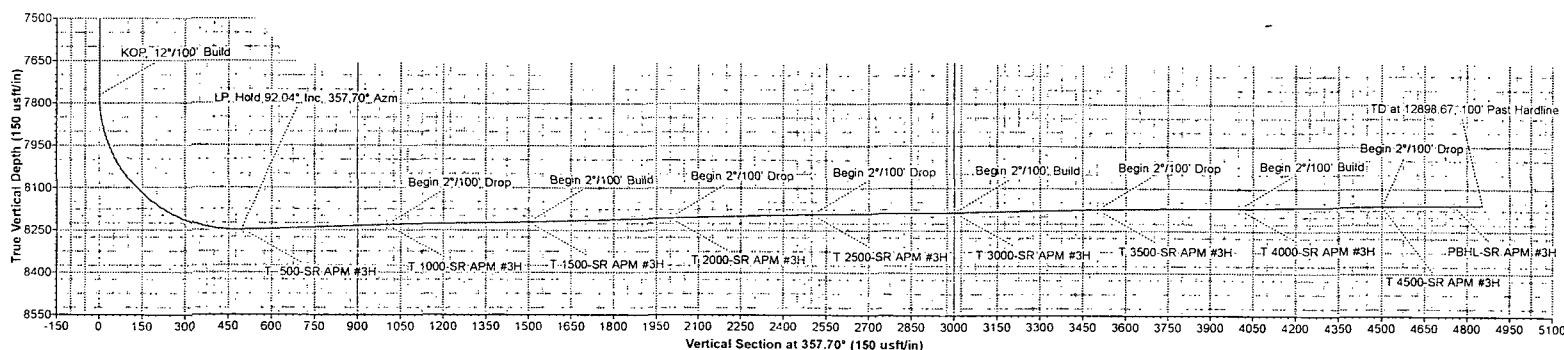
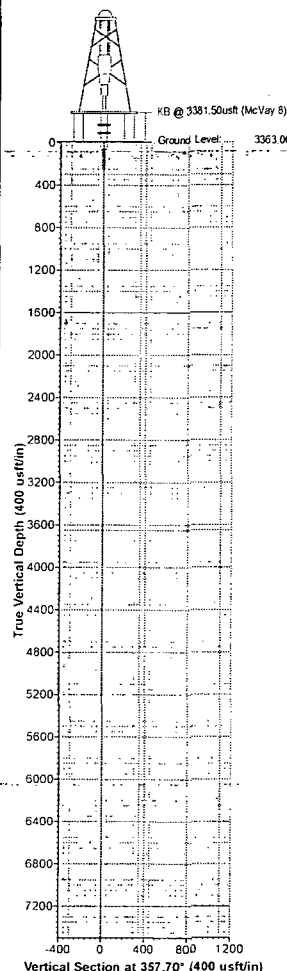
Yates Petroleum Corporation respectfully requests the option of the previously approved contingency plan if hole conditions warrant but to remove the packers and ports assembly after the setting of the 4 1/2" casing and cement approx. 200' into previous casing. Cement volumes will be adjusted accordingly. After stimulation 4 1/2" casing will be cut and pulled at approx. 8500'



Project: Eddy County, NM (NAD83 NME)
Site: Southland Royalty APM State
Well: #3H
Wellbore: WB1/Job #1410414
Design: Plan #1 03-06-14
Rig: McVay 8



Azimuths to Grid North
True North: -0.17°
Magnetic North: 7.33°
Magnetic Field
Strength: 48544.4nT
Dip Angle: 60.43°
Date: 03/06/2014
Model: IGRF2010_14

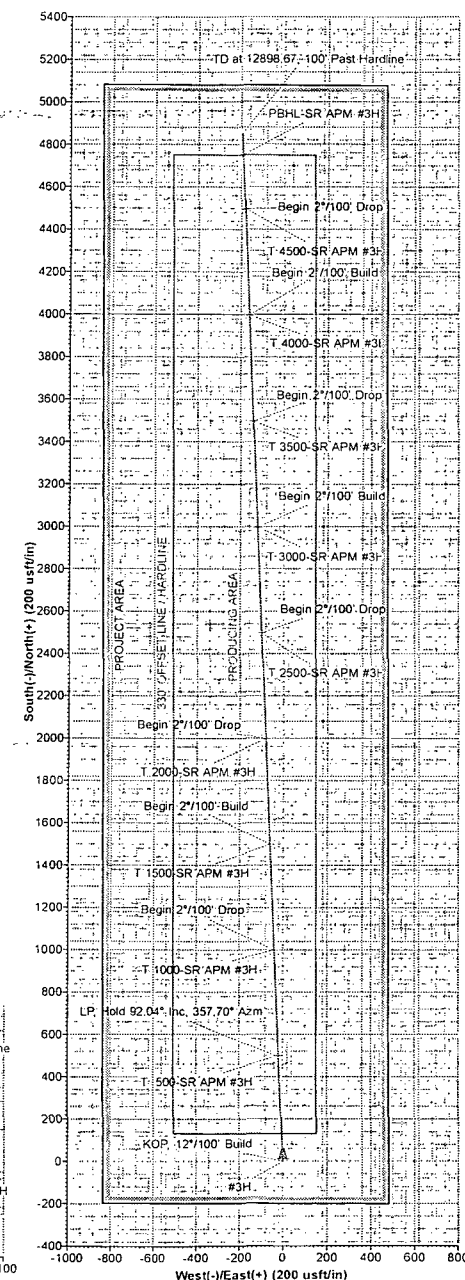


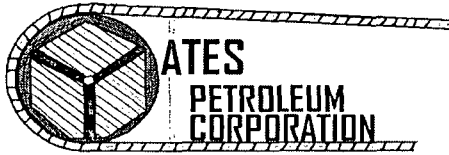
WELL DETAILS									
	N-S	E-W	Northing	Ground Level	Easting	Latitude	Longitude		
	0.00	0.00	599440.56	3363.00	636047.24	32° 38' 21.43223 N	104° 1' 32.35058 W		

SECTION DETAILS									
Sec	MD	Inc	Act	TVD	N-S	E-W	Dleg	IFace	VSec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	7771.84	0.00	0.00	7771.84	0.00	0.00	0.00	0.00	0.00
3	8536.84	92.04	357.70	8249.00	494.05	-19.86	12.00	357.70	494.46
4	9044.70	92.04	357.70	8231.00	899.19	-40.16	0.00	1000.00	T 1000-SR APM #3H
5	9991.58	91.10	357.70	8229.72	1046.02	-42.04	2.00	-180.00	1046.86
6	9544.80	91.10	357.70	8221.00	1498.79	-60.23	0.00	0.00	1500.00
7	9576.64	91.74	357.70	8220.21	1530.80	-61.51	2.00	0.00	1531.83
8	10045.03	91.74	357.70	8206.00	1998.39	-80.31	0.00	0.00	2000.00
9	10057.65	91.49	357.70	8205.64	2010.99	-80.82	2.00	-180.00	2012.62
10	10545.20	91.49	357.70	8193.00	2497.98	-100.39	0.00	0.00	2500.00
11	10580.66	90.78	357.70	8192.30	2533.41	-101.81	2.00	180.00	2535.45
12	11045.25	90.78	357.70	8186.00	2997.58	-120.47	0.00	0.00	3000.00
13	11076.09	91.39	357.70	8185.42	3028.40	-121.70	2.00	0.00	3030.84
14	11545.39	91.39	357.70	8174.00	3497.18	-140.54	0.00	0.00	3500.00
15	11588.28	90.54	357.70	8173.28	3540.02	-142.27	2.00	180.00	3542.88
16	12045.82	90.54	357.70	8169.00	3996.77	-160.52	0.00	0.00	4000.00
17	12064.82	90.92	357.70	8168.75	4016.16	-161.40	2.00	0.00	4019.40
18	12545.48	90.92	357.70	8161.00	4496.37	-180.70	0.00	0.00	4500.00
19	12556.05	90.67	357.70	8160.82	4508.93	-181.20	2.00	-180.00	4512.57
20	12798.67	90.67	357.70	8158.00	4749.33	-190.67	0.00	0.00	4753.17
21	12898.67	90.67	357.70	8156.83	4849.25	-194.88	0.00	0.00	4853.15

DESIGN TARGET DETAILS									
Name	TVD	N-S	E-W	Northing	Easting	Latitude	Longitude	Shape	
PBHL-SR APM #3H	8158.00	4749.33	-190.67	601189.89	635856.38	32° 39' 8.43359 N	104° 1' 34.42215 W	Point	
-plan hits target center	8161.00	4496.37	-180.70	600936.93	635866.55	32° 39' 5.93016 N	104° 1' 34.31180 W	Point	
T 4500-SR APM #3H	8169.00	3996.77	-150.62	600437.33	635886.62	32° 39' 0.98595 N	104° 1' 34.09386 W	Point	
-plan hits target center	8174.00	3497.18	-140.54	599937.74	635906.70	32° 38' 56.04174 N	104° 1' 33.87593 W	Point	
T 3500-SR APM #3H	8186.00	2997.58	-120.47	599438.14	635926.78	32° 38' 51.09753 N	104° 1' 33.65801 W	Point	
-plan hits target center	8193.00	2497.98	-100.39	598938.54	635946.86	32° 38' 46.15331 N	104° 1' 33.44009 W	Point	
T 2500-SR APM #3H	8206.00	1998.39	-80.31	598438.95	635966.93	32° 38' 41.20910 N	104° 1' 33.22217 W	Point	
-plan hits target center	8221.00	1498.79	-60.23	597939.35	635987.01	32° 38' 36.26489 N	104° 1' 33.00427 W	Point	
T 1500-SR APM #3H	8231.00	999.19	-40.16	597439.75	636007.09	32° 38' 31.32067 N	104° 1' 32.78636 W	Point	
-plan hits target center	8249.00	499.60	-20.08	596940.16	636027.17	32° 38' 26.37645 N	104° 1' 32.56847 W	Point	
T 500-SR APM #3H									
-plan misses target center by 0.19 usft at 8544.38 usft MD (8249.81 TVD, 499.59 N, -20.08 E)									

Map System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone Name: New Mexico Eastern Zone
Local Origin: Well #3H, Grid North
Latitude: 32° 38' 21.43223 N
Longitude: 104° 1' 32.35058 W
Grid East: 636047.24
Grid North: 596440.56
Scale Factor: 1.000
Geomagnetic Model: IGRF2010_14
Sample Date: 06-Mar-14
Magnetic Declination: 7.49°
Dip Angle from Horizontal: 60.43°
Magnetic Field Strength: 48544
To convert a Magnetic Direction to a Grid Direction, Add 7.33°
To convert a Magnetic Direction to a True Direction, Add 7.49° East
To convert a True Direction to a Grid Direction, Subtract 0.17°
LEGEND
Plan #1 03-06-14





Yates Petroleum Corp.

Eddy County, NM (NAD83 NME)

Southland Royalty APM State

#3H

WB1/Job #1410414

Plan: Plan #1 03-06-14

Standard Planning Report

06 March, 2014



PHOENIX
TECHNOLOGY SERVICES



Phoenix Technology Services Planning Report



Database:	GCR DB	Local Co-ordinate Reference:	Well #3H
Company:	Yates Petroleum Corp.	TVD Reference:	KB @ 3381.50usft (McVay 8)
Project:	Eddy County, NM (NAD83 NME)	MD Reference:	KB @ 3381.50usft (McVay 8)
Site:	Southland Royalty APM State	North Reference:	Grid
Well:	#3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1/Job #1410414		
Design:	Plan #1 03-06-14		

Project:	Eddy County, NM (NAD83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:	Southland Royalty APM State		
Site Position:		Northing:	596,440.56 usft
From:	Map	Easting:	636,047.25 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 38' 21.43223 N
		Longitude:	104° 1' 32.35058 W
		Grid Convergence:	0.17 °

Well	#3H					
Well Position	+N/-S	0.00 usft	Northing:	596,440.56 usft	Latitude:	32° 38' 21.43223 N
	+E/-W	0.00 usft	Easting:	636,047.25 usft	Longitude:	104° 1' 32.35058 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,363.00 usft

Wellbore		WB1/Job #1410414			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	03/06/14	7.49	60.43	48,544

Design:	Plan #1 03-06-14			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	357.70



Phoenix Technology Services

Planning Report



Database: GCR DB
Company: Yates Petroleum Corp.
Project: Eddy County, NM (NAD83 NME)
Site: Southland Royalty APM State
Well: #3H
Wellbore: WB1/Job #1410414
Design: Plan #1 03-06-14

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

Well #3H
KB @ 3381.50usft (McVay 8)
KB @ 3381.50usft (McVay 8)
Grid
Minimum Curvature

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,771.84	0.00	0.00	7,771.84	0.00	0.00	0.00	0.00	0.00	0.00	
8,538.84	92.04	357.70	8,249.00	494.06	-19.86	12.00	12.00	-0.30	357.70	
9,044.70	92.04	357.70	8,231.00	999.19	-40.16	0.00	0.00	0.00	0.00	T 1000-SR APM #3H
9,091.58	91.10	357.70	8,229.72	1,046.02	-42.04	2.00	-2.00	0.00	-180.00	
9,544.80	91.10	357.70	8,221.00	1,498.79	-60.23	0.00	0.00	0.00	0.00	T 1500-SR APM #3H
9,576.64	91.74	357.70	8,220.21	1,530.60	-61.51	2.00	2.00	0.00	0.00	
10,045.03	91.74	357.70	8,206.00	1,998.39	-80.31	0.00	0.00	0.00	0.00	T 2000-SR APM #3H
10,057.65	91.49	357.70	8,205.65	2,010.99	-80.82	2.00	-2.00	0.00	-180.00	
10,545.20	91.49	357.70	8,193.00	2,497.98	-100.39	0.00	0.00	0.00	0.00	T 2500-SR APM #3H
10,580.66	90.78	357.70	8,192.30	2,533.41	-101.81	2.00	-2.00	0.00	180.00	
11,045.25	90.78	357.70	8,186.00	2,997.58	-120.47	0.00	0.00	0.00	0.00	T 3000-SR APM #3H
11,076.09	91.39	357.70	8,185.42	3,028.40	-121.70	2.00	2.00	0.00	0.00	
11,545.39	91.39	357.70	8,174.00	3,497.18	-140.54	0.00	0.00	0.00	0.00	T 3500-SR APM #3H
11,588.28	90.54	357.70	8,173.28	3,540.02	-142.27	2.00	-2.00	0.00	180.00	
12,045.42	90.54	357.70	8,169.00	3,996.77	-160.62	0.00	0.00	0.00	0.00	T 4000-SR APM #3H
12,064.82	90.92	357.70	8,168.75	4,016.16	-161.40	2.00	2.00	0.00	0.00	
12,545.48	90.92	357.70	8,161.00	4,496.37	-180.70	0.00	0.00	0.00	0.00	T 4500-SR APM #3H
12,558.06	90.67	357.70	8,160.82	4,508.93	-181.20	2.00	-2.00	0.00	-180.00	
12,798.67	90.67	357.70	8,158.00	4,749.33	-190.87	0.00	0.00	0.00	0.00	PBHL-SR APM #3H
12,898.67	90.67	357.70	8,156.83	4,849.25	-194.88	0.00	0.00	0.00	0.00	



Phoenix Technology Services Planning Report



Database: GCR DB
Company: Yates Petroleum Corp.
Project: Eddy County, NM (NAD83 NME)
Site: Southland Royalty APM State
Well: #3H
Wellbore: WB1/Job #1410414
Design: Plan #1 03-06-14

Local Co-ordinate Reference:
TVD Reference: KB @ 3381.50usft (McVay 8)
MD Reference: KB @ 3381.50usft (McVay 8)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,771.84	0.00	0.00	7,771.84	0.00	0.00	0.00	0.00	0.00	0.00
KOP, 12°/100' Build									
7,800.00	3.38	357.70	7,799.98	0.83	-0.03	0.83	12.00	12.00	0.00
7,900.00	15.38	357.70	7,898.47	17.08	-0.69	17.10	12.00	12.00	0.00
8,000.00	27.38	357.70	7,991.42	53.44	-2.15	53.48	12.00	12.00	0.00
8,100.00	39.38	357.70	8,074.77	108.31	-4.35	108.40	12.00	12.00	0.00
8,200.00	51.38	357.70	8,144.88	179.30	-7.21	179.45	12.00	12.00	0.00
8,300.00	63.38	357.70	8,198.69	263.31	-10.58	263.52	12.00	12.00	0.00
8,400.00	75.38	357.70	8,233.84	356.65	-14.33	356.94	12.00	12.00	0.00
8,500.00	87.38	357.70	8,248.81	455.26	-18.30	455.63	12.00	12.00	0.00
8,538.84	92.04	357.70	8,249.00	494.06	-19.86	494.46	12.00	12.00	0.00
LP, Hold 92.04° Inc, 357.70° Azm									
8,544.38	92.04	357.70	8,248.81	499.59	-20.08	499.99	0.00	0.00	0.00
T 500-SR APM #3H									
8,600.00	92.04	357.70	8,246.83	555.13	-22.31	555.58	0.00	0.00	0.00
8,700.00	92.04	357.70	8,243.27	654.99	-26.32	655.52	0.00	0.00	0.00
8,800.00	92.04	357.70	8,239.71	754.85	-30.34	755.46	0.00	0.00	0.00
8,900.00	92.04	357.70	8,236.15	854.70	-34.35	855.39	0.00	0.00	0.00
9,000.00	92.04	357.70	8,232.59	954.56	-38.36	955.33	0.00	0.00	0.00
9,044.70	92.04	357.70	8,231.00	999.19	-40.16	1,000.00	0.00	0.00	0.00
Begin 2°/100' Drop - T 1000-SR APM #3H									
9,091.58	91.10	357.70	8,229.72	1,046.02	-42.04	1,046.86	2.00	-2.00	0.00
9,100.00	91.10	357.70	8,229.55	1,054.43	-42.38	1,055.28	0.00	0.00	0.00
9,200.00	91.10	357.70	8,227.63	1,154.33	-46.39	1,155.26	0.00	0.00	0.00
9,300.00	91.10	357.70	8,225.71	1,254.23	-50.40	1,255.24	0.00	0.00	0.00
9,400.00	91.10	357.70	8,223.78	1,354.13	-54.42	1,355.23	0.00	0.00	0.00
9,500.00	91.10	357.70	8,221.86	1,454.03	-58.43	1,455.21	0.00	0.00	0.00
9,544.80	91.10	357.70	8,221.00	1,498.79	-60.23	1,500.00	0.00	0.00	0.00
Begin 2°/100' Build - T 1500-SR APM #3H									
9,576.64	91.74	357.70	8,220.21	1,530.60	-61.51	1,531.83	2.00	2.00	0.00
9,600.00	91.74	357.70	8,219.50	1,553.92	-62.45	1,555.18	0.00	0.00	0.00
9,700.00	91.74	357.70	8,216.47	1,653.80	-66.46	1,655.13	0.00	0.00	0.00
9,800.00	91.74	357.70	8,213.43	1,753.67	-70.48	1,755.09	0.00	0.00	0.00
9,900.00	91.74	357.70	8,210.40	1,853.54	-74.49	1,855.04	0.00	0.00	0.00
10,000.00	91.74	357.70	8,207.37	1,953.42	-78.50	1,954.99	0.00	0.00	0.00
10,045.03	91.74	357.70	8,206.00	1,998.39	-80.31	2,000.00	0.00	0.00	0.00
Begin 2°/100' Drop - T 2000-SR APM #3H									
10,057.65	91.49	357.70	8,205.65	2,010.99	-80.82	2,012.62	2.00	-2.00	0.00
10,100.00	91.49	357.70	8,204.55	2,053.30	-82.52	2,054.95	0.00	0.00	0.00
10,200.00	91.49	357.70	8,201.95	2,153.18	-86.53	2,154.92	0.00	0.00	0.00
10,300.00	91.49	357.70	8,199.36	2,253.07	-90.55	2,254.89	0.00	0.00	0.00
10,400.00	91.49	357.70	8,196.77	2,352.95	-94.56	2,354.85	0.00	0.00	0.00
10,500.00	91.49	357.70	8,194.17	2,452.84	-98.57	2,454.82	0.00	0.00	0.00
10,545.20	91.49	357.70	8,193.00	2,497.98	-100.39	2,500.00	0.00	0.00	0.00
Begin 2°/100' Drop - T 2500-SR APM #3H									
10,580.66	90.78	357.70	8,192.30	2,533.41	-101.81	2,535.45	2.00	-2.00	0.00
10,600.00	90.78	357.70	8,192.04	2,552.73	-102.59	2,554.80	0.00	0.00	0.00
10,700.00	90.78	357.70	8,190.68	2,652.65	-106.60	2,654.79	0.00	0.00	0.00
10,800.00	90.78	357.70	8,189.33	2,752.56	-110.62	2,754.78	0.00	0.00	0.00
10,900.00	90.78	357.70	8,187.97	2,852.47	-114.63	2,854.77	0.00	0.00	0.00
11,000.00	90.78	357.70	8,186.61	2,952.38	-118.65	2,954.76	0.00	0.00	0.00
11,045.25	90.78	357.70	8,186.00	2,997.58	-120.47	3,000.00	0.00	0.00	0.00



Phoenix Technology Services Planning Report



Database: GCR DB
Company: Yates Petroleum Corp.
Project: Eddy County, NM (NAD83 NME)
Site: Southland Royalty APM State
Well: #3H
Wellbore: WB1/Job #1410414
Design: Plan #1 03-06-14

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

Well #3H
KB @ 3381.50usft (McVay 8)
KB @ 3381.50usft (McVay 8)
Grid
Minimum Curvature

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)
Begin 2°/100' Build - T 3000-SR APM #3H									
11,076.09	91.39	357.70	8,185.42	3,028.40	-121.70	3,030.84	2.00	2.00	0.00
11,100.00	91.39	357.70	8,184.83	3,052.28	-122.66	3,054.74	0.00	0.00	0.00
11,200.00	91.39	357.70	8,182.40	3,152.17	-126.68	3,154.71	0.00	0.00	0.00
11,300.00	91.39	357.70	8,179.97	3,252.06	-130.69	3,254.68	0.00	0.00	0.00
11,400.00	91.39	357.70	8,177.54	3,351.95	-134.71	3,354.65	0.00	0.00	0.00
11,500.00	91.39	357.70	8,175.10	3,451.84	-138.72	3,454.62	0.00	0.00	0.00
11,545.39	91.39	357.70	8,174.00	3,497.18	-140.54	3,500.00	0.00	0.00	0.00
Begin 2°/100' Drop - T 3500-SR APM #3H									
11,588.28	90.54	357.70	8,173.28	3,540.02	-142.27	3,542.88	2.00	-2.00	0.00
11,600.00	90.54	357.70	8,173.17	3,551.74	-142.74	3,554.60	0.00	0.00	0.00
11,700.00	90.54	357.70	8,172.23	3,651.65	-146.75	3,654.60	0.00	0.00	0.00
11,800.00	90.54	357.70	8,171.30	3,751.57	-150.77	3,754.59	0.00	0.00	0.00
11,900.00	90.54	357.70	8,170.36	3,851.48	-154.78	3,854.59	0.00	0.00	0.00
12,000.00	90.54	357.70	8,169.43	3,951.40	-158.80	3,954.59	0.00	0.00	0.00
12,045.42	90.54	357.70	8,169.00	3,996.77	-160.62	4,000.00	0.00	0.00	0.00
Begin 2°/100' Build - T 4000-SR APM #3H									
12,064.82	90.92	357.70	8,168.75	4,016.16	-161.40	4,019.40	2.00	2.00	0.00
12,100.00	90.92	357.70	8,168.19	4,051.31	-162.81	4,054.58	0.00	0.00	0.00
12,200.00	90.92	357.70	8,166.57	4,151.21	-166.83	4,154.56	0.00	0.00	0.00
12,300.00	90.92	357.70	8,164.96	4,251.12	-170.84	4,254.55	0.00	0.00	0.00
12,400.00	90.92	357.70	8,163.35	4,351.03	-174.86	4,354.54	0.00	0.00	0.00
12,500.00	90.92	357.70	8,161.73	4,450.93	-178.87	4,454.53	0.00	0.00	0.00
12,545.48	90.92	357.70	8,161.00	4,496.37	-180.70	4,500.00	0.00	0.00	0.00
Begin 2°/100' Drop - T 4500-SR APM #3H									
12,558.06	90.67	357.70	8,160.82	4,508.93	-181.20	4,512.57	2.00	-2.00	0.00
12,600.00	90.67	357.70	8,160.33	4,550.84	-182.89	4,554.52	0.00	0.00	0.00
12,700.00	90.67	357.70	8,159.16	4,650.75	-186.90	4,654.51	0.00	0.00	0.00
12,798.67	90.67	357.70	8,158.00	4,749.33	-190.87	4,753.17	0.00	0.00	0.00
PBHL-SR APM #3H									
12,800.00	90.67	357.70	8,157.98	4,750.67	-190.92	4,754.50	0.00	0.00	0.00
12,898.67	90.67	357.70	8,156.83	4,849.25	-194.88	4,853.16	0.00	0.00	0.00
TD at 12898.67, 100' Past Hardline									



Phoenix Technology Services Planning Report



Database:	GCR DB	Local Co-ordinate Reference:	Well #3H
Company:	Yates Petroleum Corp.	TVD Reference:	KB @ 3381.50usft (McVay 8)
Project:	Eddy County, NM (NAD83 NME)	MD Reference:	KB @ 3381.50usft (McVay 8)
Site:	Southland Royalty APM State	North Reference:	Grid
Well:	#3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1/Job #1410414		
Design:	Plan #1 03-06-14		

Design Targets										
Target Name	hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Shape		(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
PBHL-SR APM #3H	- plan hits target center - Point	0.00	0.00	8,158.00	4,749.33	-190.87	601,189.90	635,856.38	32° 39' 8.43359 N	104° 1' 34.42215 W
T 4500-SR APM #3H	- plan hits target center - Point	0.00	0.01	8,161.00	4,496.37	-180.70	600,936.93	635,866.55	32° 39' 5.93016 N	104° 1' 34.31180 W
T 4000-SR APM #3H	- plan hits target center - Point	0.00	0.01	8,169.00	3,996.77	-160.62	600,437.34	635,886.63	32° 39' 0.98595 N	104° 1' 34.09386 W
T 3500-SR APM #3H	- plan hits target center - Point	0.00	0.01	8,174.00	3,497.18	-140.54	599,937.74	635,906.70	32° 38' 56.04174 N	104° 1' 33.87593 W
T 3000-SR APM #3H	- plan hits target center - Point	0.00	0.01	8,186.00	2,997.58	-120.47	599,438.14	635,926.78	32° 38' 51.09753 N	104° 1' 33.65801 W
T 2500-SR APM #3H	- plan hits target center - Point	0.00	0.01	8,193.00	2,497.98	-100.39	598,938.55	635,946.86	32° 38' 46.15332 N	104° 1' 33.44009 W
T 2000-SR APM #3H	- plan hits target center - Point	0.00	0.01	8,206.00	1,998.39	-80.31	598,438.95	635,966.94	32° 38' 41.20910 N	104° 1' 33.22217 W
T 1500-SR APM #3H	- plan hits target center - Point	0.00	0.01	8,221.00	1,498.79	-60.23	597,939.35	635,987.02	32° 38' 36.26489 N	104° 1' 33.00427 W
T 1000-SR APM #3H	- plan hits target center - Point	0.00	0.01	8,231.00	999.19	-40.16	597,439.76	636,007.09	32° 38' 31.32067 N	104° 1' 32.78636 W
T 500-SR APM #3H	- plan misses target center by 0.19usft at 8544.38usft MD (8248.81 TVD, 499.59 N, -20.08 E) - Point	0.00	0.00	8,249.00	499.60	-20.08	596,940.16	636,027.17	32° 38' 26.37645 N	104° 1' 32.56847 W

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
7,771.84	7,771.84	0.00	0.00	KOP, 12°/100' Build
8,538.84	8,249.00	494.06	-19.86	LP, Hold 92.04° Inc, 357.70° Azm
9,044.70	8,231.00	999.19	-40.16	Begin 2°/100' Drop
9,544.80	8,221.00	1,498.79	-60.23	Begin 2°/100' Build
10,045.03	8,206.00	1,998.39	-80.31	Begin 2°/100' Drop
10,545.20	8,193.00	2,497.99	-100.39	Begin 2°/100' Drop
11,045.25	8,186.00	2,997.58	-120.47	Begin 2°/100' Build
11,545.39	8,174.00	3,497.18	-140.54	Begin 2°/100' Drop
12,045.42	8,169.00	3,996.78	-160.62	Begin 2°/100' Build
12,545.48	8,161.00	4,496.37	-180.70	Begin 2°/100' Drop
12,898.67	8,156.83	4,849.25	-194.88	TD at 12898.67, 100' Past Hardline