



PHOENIX
TECHNOLOGY SERVICES

June 3, 2014

Yates Petroleum Corp.
Attention: Regulatory Department
105 S. 4th St.
Artesia, NM 88210

NM OIL CONSERVATION
ARTESIA DISTRICT

JUN 06 2014

Re: Yates Petroleum
Roy AET Com #9H
Eddy County, NM
API #30-015-42252
Job No. 1410611

RECEIVED

Dear Regulatory Department;

Phoenix Technology Services, Inc. has filed the Survey Data Certification, Surveys, and Lease Plat for the above referenced well with the State of New Mexico Oil Conservation Division – District 2 via certified mail. A copy of the filing is attached for your records.

Name of Surveyor	Drain Hole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
James Garber	9H	135	7,316	05/07/14	05/16/14	MWD

Thank you for the opportunity to be of service. Please contact me if you have any questions or require additional information.

Best Regards,

Dana Robinson

Dana Robinson
Operations Administrator

Phoenix Technology Services SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER 1410611

OPERATOR Yates Petroleum

WELL NAME Roy AET Com. #9H

COUNTY & STATE

Eddy Co., NM

API WELL NUMBER 30-015-42252

PROPOSED DIRECTION 271.36

TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
0 ft	00 ft	0 ft	0 ft	00 ft	00 ft	Surface

FIRST	FIRST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
7-May-14	135 ft	0.3	130.8

SURVEY INSTRUMENT
TYPE
Phoenix MWD

LAST	LAST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
16-May-14	7,316 ft	90.9	271.7

TO THE BEST OF MY KNOWLEDGE I
CERTIFY THIS SURVEY DATA TO BE
TRUE AND CORRECT.

PROJECTED	PROJECTED		
TD SURVEY	TD SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
16-May-14	7,390 ft	90.9	271.7

James Garber

PRINT YOUR NAME ABOVE

James Garber

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	7.7
DECLINATION OR GRID	GRID

5/16/2014

TODAY'S DATE

MWD SUPERVISOR 1

Jim Garber

DIRECTIONAL DRILLER 1

Dan Waggoner

MWD SUPERVISOR 2

August Holt

DIRECTIONAL DRILLER 2

Daniel Scott

1805 Brittmore Road Houston, Texas 77043 (713)3370609 (Voice), (713)337-0599 (Fax)

DISTRICT I

1625 N. French Dr., Hobbs, NM 88240
Phone (575) 398-6161 Fax: (575) 398-0720

DISTRICT II

811 S. First St., Artesia, NM 88210
Phone (575) 746-1259 Fax: (575) 746-9720

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 478-3480 Fax: (505) 478-3482

State of New Mexico
Energy, Minerals and Natural Resources Department

NM OIL CONSERVATION

Form C-102

Revised August 1, 2011

ARTESIA DISTRICT

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, New Mexico 87505

JUN 06 2014

RECEIVED

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name ROY AET COM	Well Number 9H
OGRID No. 025575	Operator Name YATES PETROLEUM CORPORATION	Elevation 3531

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	17	19 S	25 E		990'	NORTH	15'	EAST	EDDY

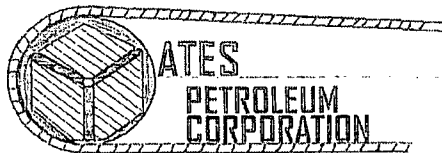
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	17	19 S	25 E		900'	NORTH	330'	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

N: 606938.3 E: 485258.3 (NAD83) B.H. 330' PROPOSED BOTTOM HOLE LOCATION Lat - N 32°39'57.27" Long - W 104°30'52.27" NMSPCE- N 606036.4 E 485581.6 (NAD-83)	N: 606923.1 E: 487920.1 (NAD83) S.L. 15' SURFACE LOCATION Lat - N 32°39'56.18" Long - W 104°29'54.03" NMSPCE- N 605918.3 E 490559.5 (NAD-83)	N: 606908.0 E: 490581.0 (NAD83) OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Date _____ Printed Name _____ Email Address _____ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. DATE SURVEYED: MARCH 11, 2014 Signature & Seal of Professional Surveyor Certificate No. Gary L. Jones 7977 SCALE: 1" = 2000' WO Num.: 30183
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Yates Petroleum Corp.

Eddy County, NM (NAD83 NME)

Roy AET Com

#9H

WB1/Job #1410611

Survey: Phoenix MWD Surveys

Standard Survey Report

19 May, 2014



PHOENIX
TECHNOLOGY SERVICES



Phoenix Technology Services

Survey Report



Company: Yates Petroleum Corp.
 Project: Eddy County, NM (NAD83 NME)
 Site: Roy AET Com
 Well: #9H
 Wellbore: WB1/Job #1410611
 Design: Surveys (Silver Oak 11)

Local Co-ordinate Reference: Well #9H
 TVD Reference: KB @ 3549.00usft (Silver Oak 11)
 MD Reference: KB @ 3549.00usft (Silver Oak 11)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: GCR DB

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	Roy AET Com		
Site Position:		Northing:	607,439.10 usft
From: Map		Easting:	490,431.50 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 40' 11.23170 N
		Longitude:	104° 29' 55.55890 W
		Grid Convergence:	-0.09 °

Well	#9H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 39' 56.18486 N
		Longitude:	104° 29' 54.03375 W
		Ground Level:	3,531.00 usft

Wellbore	WB1/Job #1410611		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010_14	04/08/14	7.70
		Dip Angle	60.37
		Field Strength	48,497

Design	Surveys (Silver Oak 11)		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
		Direction	271.36
		(°)	

Survey Program	Date 05/19/14		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
135.00	7,390.00	Phoenix MWD Surveys (WB1/Job #14106)	MWD
			Description
			MWD - Standard

Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.00	0.30	130.80	135.00	-0.23	0.27	-0.27	0.22	0.22	0.00
First Phoenix MWD Survey									
193.00	0.40	155.90	193.00	-0.51	0.47	-0.48	0.31	0.17	43.28
287.00	0.70	157.20	286.99	-1.34	0.82	-0.85	0.32	0.32	1.38
377.00	0.80	171.20	376.99	-2.47	1.13	-1.19	0.23	0.11	15.56
470.00	0.50	162.30	469.98	-3.50	1.35	-1.44	0.34	-0.32	-9.57
564.00	0.20	262.80	563.98	-3.91	1.32	-1.41	0.61	-0.32	106.91
658.00	0.60	274.80	657.98	-3.89	0.66	-0.75	0.43	0.43	12.77
751.00	0.50	261.90	750.97	-3.91	-0.22	0.13	0.17	-0.11	-13.87
844.00	0.50	316.90	843.97	-3.67	-0.90	0.82	0.50	0.00	59.14



Phoenix Technology Services

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Wellbore: WB1/Job #1410611
Design: Surveys (Silver Oak 11)

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TVD Reference: KB @ 3549.00usft (Silver Oak 11)
MD Reference: KB @ 3549.00usft (Silver Oak 11)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB

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)
938.00	0.40	358.20	937.97	-3.04	-1.19	1.12	0.35	-0.11	43.94
1,032.00	0.60	337.40	1,031.96	-2.26	-1.39	1.34	0.28	0.21	-22.13
1,125.00	0.40	309.90	1,124.96	-1.60	-1.83	1.79	0.33	-0.22	-29.57
1,219.00	0.50	318.90	1,218.96	-1.08	-2.35	2.32	0.13	0.11	9.57
1,312.00	0.30	316.30	1,311.95	-0.60	-2.79	2.77	0.22	-0.22	-2.80
1,348.00	0.10	256.60	1,347.95	-0.54	-2.88	2.87	0.73	-0.56	-165.83
1,486.00	0.20	348.10	1,485.95	-0.33	-3.05	3.04	0.16	0.07	66.30
1,580.00	0.20	333.60	1,579.95	-0.02	-3.16	3.15	0.05	0.00	-15.43
1,673.00	0.20	2.00	1,672.95	0.28	-3.22	3.23	0.11	0.00	30.54
1,767.00	0.20	356.40	1,766.95	0.61	-3.23	3.24	0.02	0.00	-5.96
1,860.00	0.10	327.70	1,859.95	0.84	-3.28	3.30	0.13	-0.11	-30.86
1,954.00	0.20	15.50	1,953.95	1.07	-3.28	3.30	0.16	0.11	50.85
1,984.00	0.20	24.30	1,983.95	1.17	-3.24	3.27	0.10	0.00	29.33
2,048.00	0.60	6.40	2,047.95	1.60	-3.16	3.20	0.65	0.63	-27.97
2,080.00	3.50	280.50	2,079.93	1.95	-4.10	4.15	10.96	9.06	-268.44
2,111.00	9.30	268.60	2,110.72	2.06	-7.54	7.59	19.09	18.71	-38.39
2,142.00	14.90	267.40	2,141.02	1.82	-14.03	14.07	18.08	18.06	-3.07
2,174.00	19.90	268.20	2,171.55	1.46	-23.59	23.62	15.64	15.63	2.50
2,205.00	23.60	268.90	2,200.34	1.17	-35.07	35.09	11.96	11.94	2.26
2,236.00	26.80	269.10	2,228.38	0.95	-48.27	48.28	10.33	10.32	0.65
2,267.00	30.20	269.40	2,255.62	0.75	-63.06	63.06	10.98	10.97	0.97
2,298.00	33.00	270.40	2,282.02	0.73	-79.30	79.29	9.19	9.03	3.23
2,329.00	36.30	272.10	2,307.52	1.13	-96.91	96.91	11.09	10.65	5.48
2,361.00	39.30	272.30	2,332.80	1.88	-116.51	116.52	9.38	9.38	0.63
2,392.00	42.00	273.20	2,356.32	2.85	-136.68	136.71	8.91	8.71	2.90
2,423.00	44.60	273.80	2,378.88	4.15	-157.90	157.95	8.49	8.39	1.94
2,454.00	47.80	273.80	2,400.34	5.64	-180.22	180.30	10.32	10.32	0.00
2,486.00	50.30	273.70	2,421.31	7.22	-204.34	204.45	7.82	7.81	-0.31
2,517.00	54.60	272.30	2,440.20	8.49	-228.87	229.01	14.33	13.87	-4.52
2,548.00	58.20	271.50	2,457.35	9.35	-254.68	254.83	11.81	11.61	-2.58
2,579.00	61.60	270.20	2,472.89	9.74	-281.49	281.64	11.55	10.97	-4.19
2,610.00	64.00	269.60	2,487.06	9.69	-309.06	309.20	7.93	7.74	-1.94
2,616.59	64.83	269.56	2,489.91	9.65	-315.00	315.14	12.59	12.58	-0.66
2616.59' MD, 330' Heel Crossing Point									
2,641.00	67.90	269.40	2,499.69	9.44	-337.36	337.49	12.59	12.58	-0.64
2,673.00	71.60	269.50	2,510.77	9.15	-367.38	367.49	11.57	11.56	0.31
2,704.00	75.50	269.80	2,519.54	8.97	-397.10	397.20	12.61	12.58	0.97
2,735.00	79.20	270.60	2,526.33	9.08	-427.34	427.44	12.20	11.94	2.58
2,766.00	83.10	271.10	2,531.10	9.54	-457.96	458.06	12.68	12.58	1.61
2,798.00	86.90	270.80	2,533.89	10.06	-489.83	489.93	11.91	11.88	-0.94
2,829.00	90.40	271.10	2,534.62	10.58	-520.81	520.92	11.33	11.29	0.97
2,922.00	91.80	271.60	2,532.83	12.77	-613.77	613.90	1.60	1.51	0.54
3,016.00	92.00	271.50	2,529.72	15.31	-707.68	707.85	0.24	0.21	-0.11



Phoenix Technology Services

Survey Report



Company: Yates Petroleum Corp.
Project: Eddy County, NM (NAD83 NME)
Site: Roy AET Com
Well: #9H
Wellbore: WB1/Job #1410611
Design: Surveys (Silver Oak 11)

Local Co-ordinate Reference: Well #9H
TVD Reference: KB @ 3549.00usft (Silver Oak 11)
MD Reference: KB @ 3549.00usft (Silver Oak 11)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB

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)
3,109.00	92.50	270.90	2,528.07	17.26	-800.59	800.77	0.84	0.54	-0.65
3,203.00	92.60	269.80	2,521.88	17.83	-894.49	894.66	1.17	0.11	-1.17
3,297.00	92.50	270.50	2,517.70	18.07	-988.40	988.55	0.75	-0.11	0.74
3,390.00	91.90	271.20	2,514.13	19.45	-1,081.32	1,081.48	0.99	-0.65	0.75
3,483.00	91.50	270.80	2,511.37	21.08	-1,174.26	1,174.43	0.61	-0.43	-0.43
3,577.00	90.80	271.60	2,509.49	23.04	-1,268.22	1,268.41	1.13	-0.74	0.85
3,670.00	90.90	272.60	2,508.11	26.45	-1,361.15	1,361.39	1.08	0.11	1.08
3,764.00	90.80	272.80	2,506.71	30.88	-1,455.03	1,455.36	0.24	-0.11	0.21
3,857.00	90.20	272.30	2,505.90	35.02	-1,547.94	1,548.33	0.84	-0.65	-0.54
3,951.00	91.70	272.30	2,504.34	38.79	-1,641.85	1,642.30	1.60	1.60	0.00
4,045.00	92.10	272.80	2,501.22	42.97	-1,735.70	1,736.23	0.68	0.43	0.53
4,139.00	92.00	270.70	2,497.86	45.84	-1,829.59	1,830.16	2.24	-0.11	-2.23
4,233.00	91.50	270.00	2,494.99	46.41	-1,923.55	1,924.11	0.91	-0.53	-0.74
4,327.00	91.10	269.40	2,492.86	45.92	-2,017.52	2,018.04	0.77	-0.43	-0.64
4,420.00	91.60	270.50	2,490.67	45.84	-2,110.49	2,110.99	1.30	0.54	1.18
4,514.00	91.80	271.40	2,487.88	47.39	-2,204.44	2,204.94	0.98	0.21	0.96
4,608.00	92.00	272.30	2,484.76	50.43	-2,298.33	2,298.88	0.98	0.21	0.96
4,701.00	91.70	272.30	2,481.76	54.16	-2,391.21	2,391.82	0.32	-0.32	0.00
4,794.00	93.00	272.10	2,477.95	57.73	-2,484.06	2,484.73	1.41	1.40	-0.22
4,888.00	93.30	271.10	2,472.78	60.35	-2,577.88	2,578.59	1.11	0.32	-1.06
4,981.00	93.50	270.50	2,467.27	61.64	-2,670.71	2,671.42	0.68	0.22	-0.65
5,075.00	92.60	271.10	2,462.26	62.95	-2,764.57	2,765.28	1.15	-0.96	0.64
5,168.00	92.80	271.60	2,457.88	65.14	-2,857.44	2,858.18	0.58	0.22	0.54
5,262.00	89.80	272.00	2,455.75	68.09	-2,951.35	2,952.14	3.22	-3.19	0.43
5,356.00	89.60	271.80	2,456.24	71.21	-3,045.30	3,046.13	0.30	-0.21	-0.21
5,449.00	89.70	271.20	2,456.81	73.64	-3,138.27	3,139.13	0.65	0.11	-0.65
5,543.00	90.20	271.30	2,456.89	75.69	-3,232.25	3,233.13	0.54	0.53	0.11
5,637.00	90.50	271.10	2,456.32	77.66	-3,326.22	3,327.13	0.38	0.32	-0.21
5,730.00	92.20	271.20	2,454.13	79.53	-3,419.17	3,420.10	1.83	1.83	0.11
5,824.00	92.10	270.90	2,450.60	81.25	-3,513.09	3,514.03	0.34	-0.11	-0.32
5,917.00	92.10	272.30	2,447.19	83.85	-3,605.99	3,606.97	1.50	0.00	1.51
6,011.00	91.70	272.30	2,444.08	87.62	-3,699.86	3,700.90	0.43	-0.43	0.00
6,104.00	91.20	272.30	2,441.72	91.35	-3,792.76	3,793.86	0.54	-0.54	0.00
6,198.00	92.40	271.60	2,438.77	94.54	-3,886.66	3,887.80	1.48	1.28	-0.74
6,291.00	92.30	271.40	2,434.96	96.98	-3,979.55	3,980.73	0.24	-0.11	-0.22
6,385.00	92.00	271.40	2,431.43	99.27	-4,073.45	4,074.66	0.32	-0.32	0.00
6,479.00	91.70	270.80	2,428.40	101.07	-4,167.38	4,168.61	0.71	-0.32	-0.64
6,572.00	92.90	270.40	2,424.66	102.05	-4,260.30	4,261.52	1.36	1.29	-0.43
6,666.00	92.00	269.70	2,420.65	102.13	-4,354.22	4,355.41	1.21	-0.96	-0.74
6,760.00	92.80	270.80	2,416.71	102.54	-4,448.13	4,449.31	1.45	0.85	1.17
6,853.00	93.00	270.80	2,412.00	103.84	-4,541.00	4,542.19	0.22	0.22	0.00
6,946.00	92.60	272.80	2,407.46	106.75	-4,633.84	4,635.07	2.19	-0.43	2.15
7,040.00	92.80	273.20	2,403.03	111.67	-4,727.61	4,728.92	0.48	0.21	0.43



Phoenix Technology Services

Survey Report



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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)
7,134.00	91.70	272.30	2,399.34	116.17	-4,821.42	4,822.82	1.51	-1.17	-0.96
7,227.00	90.70	271.80	2,397.39	119.50	-4,914.34	4,915.79	1.20	-1.08	-0.54
7,290.69	90.84	271.73	2,396.54	121.46	-4,978.00	4,979.48	0.25	0.22	-0.11
7290.69' MD, 330' Toe Crossing Point									
7,316.00	90.90	271.70	2,396.15	122.22	-5,003.29	5,004.78	0.25	0.22	-0.11
Last Phoenix MWD Survey									
7,390.00	90.90	271.70	2,394.99	124.41	-5,077.25	5,078.77	0.00	0.00	0.00
Projection to TD at 6' N & 99' W of BHL									

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
135.00	135.00	-0.23	0.27	First Phoenix MWD Survey
2,616.59	2,489.91	9.65	-315.00	2616.59' MD, 330' Heel Crossing Point
7,290.69	2,396.54	121.46	-4,978.00	7290.69' MD, 330' Toe Crossing Point
7,316.00	2,396.15	122.22	-5,003.29	Last Phoenix MWD Survey
7,390.00	2,394.99	124.41	-5,077.25	Projection to TD at 6' N & 99' W of BHL

Checked By: _____ Approved By: _____ Date: _____