

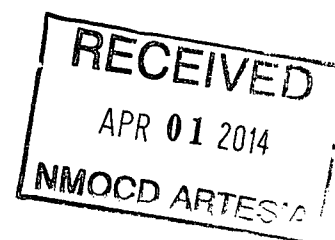


3335 Pollok Drive
Conroe, Texas 77303

936.442.2500 (office)
936.442.2599 (fax)
www.msenergyservices.com

Surveyor Certification Form

Survey Company: MS ENERGY SERVICES
Surveyors Name: ERIC ZIRNGIBLE
Survey Job Type: RATE GYRO
Customer: YATES PETROLEUM CORPORATION
Well: LOLA BUG 1H
API: 30-015-41604
Surveyed from: SURFACE TO A DEPTH OF 1950' MD
Survey Run Date: 12-14-13
Surface Location: EDDY COUNTY, NM



I certify that the data is true, correct, and complete and within the limitations of the tool set forth by MS Energy Services; that I am authorized and qualified to make this report; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by MS Energy Services.

ERIC ZIRNGIBLE

Digitally signed by ERIC ZIRNGIBLE
DN: cn=ERIC ZIRNGIBLE, o=MS ENERGY SERVICES,
ou, email=ezirngible@msenergyservices.com, c=US
Date: 2013.04.03 14:33:57 -05'00'



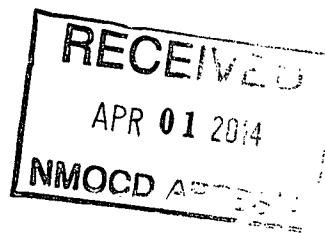
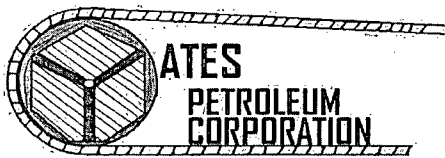
Job Number: SVMO-131072
 Company: Yates Petroleum Corporation
 Lease/Well: Lola Bug 1H
 Location: Eddy County, NM
 Rig Name: Silver Oak #11
 RKB: 18.5'
 G.L. or M.S.L.: GL

State/Country: New Mexico/USA
 Declination: 7.73°
 Grid: East To Grid North
 File name: S:\2013SU-1\YATES\MOILOLABU-111H.SVY
 Date/Time: 16-Dec-13 / 16:02
 Curve Name: Surface - 1950' M.D. (Rate Gyro)

WINERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 272.06
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.40	236.00	100.00	-.20	-.29	.28	.35	236.00	.40
200.00	.52	248.84	200.00	-.55	-1.00	.98	1.14	241.05	.16
300.00	.53	276.89	299.99	-.66	-1.88	1.86	2.00	250.63	.25
400.00	.44	266.61	399.99	-.63	-2.73	2.70	2.80	257.00	.12
500.00	.27	298.53	499.99	-.54	-3.32	3.30	3.36	260.76	.25
600.00	.09	293.77	599.99	-.40	-3.60	3.58	3.62	263.72	.18
700.00	.33	248.03	699.99	-.47	-3.93	3.92	3.96	263.16	.27
800.00	.61	242.47	799.98	-.83	-4.67	4.64	4.75	259.98	.28
900.00	.77	243.42	899.97	-1.37	-5.75	5.69	5.91	256.57	.16

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
1000.00	.95	220.37	999.96	-2.30	-6.88	6.80	7.26	251.49	.39
1100.00	.72	176.17	1099.95	-3.56	-7.38	7.25	8.19	244.23	.66
1200.00	.47	166.73	1199.95	-4.59	-7.24	7.07	8.58	237.64	.27
1300.00	.07	180.10	1299.95	-5.05	-7.15	6.96	8.75	234.77	.40
1400.00	.25	253.51	1399.95	-5.17	-7.36	7.17	8.99	234.90	.24
1500.00	.50	230.28	1499.94	-5.51	-7.90	7.70	9.64	235.10	.29
1600.00	.45	235.59	1599.94	-6.01	-8.56	8.34	10.46	234.92	.07
1700.00	.50	222.25	1699.94	-6.56	-9.18	8.94	11.28	234.46	.12
1800.00	.38	189.30	1799.93	-7.21	-9.53	9.26	11.95	232.89	.27
1900.00	.39	204.56	1899.93	-7.85	-9.72	9.43	12.49	231.10	.10
Last Survey Depth Recorded									
1950.00	.40	228.49	1949.93	-8.12	-9.92	9.63	12.82	230.72	.33



Yates Petroleum Corp.

Eddy County, New Mexico (NAD83 NME)

Lola BUG

#1H

WB1/Job #1311664

Survey: Phoenix MWD Survey

Standard Survey Report

22 December, 2013





Survey Report



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County, New Mexico (NAD83 NME)	TVD Reference:	KB @ 3432.50usft (Silver Oak 11)
Site:	Lola BUG	MD Reference:	KB @ 3432.50usft (Silver Oak 11)
Well:	#1H	North Reference:	Grid
Wellbore:	WB1/Job #1311664	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Silver Oak 11)	Database:	Compass 5000 GCR DB

Project	Eddy County, New Mexico (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		Lola BUG			
Site Position:		Northing:	629,938.65 usft	Latitude:	32° 43' 54.21010 N
From:	Map	Easting:	522,428.26 usft	Longitude:	104° 23' 41.37574 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.03 °

Well	#1H					
Well Position	+N/-S	0.00 usft	Northing:	629,938.65 usft	Latitude:	32° 43' 54.21010 N
	+E/-W	0.00 usft	Easting:	522,428.26 usft	Longitude:	104° 23' 41.37574 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,414.00 usft

Wellbore		WB1/Job #1311664			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	12/03/13	7.70	60.45	48,584

Design	Surveys (Silver Oak 11)				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	272.06	

Survey Program		Date 12/22/13		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.00	1,950.00	MS Gyro Survey (WB1/Job #1311664)	CB-GYRO-MS	Camera based gyro multishot
2,007.00	7,464.00	Phoenix MWD Survey (WB1/Job #131166)	MWD	MWD - Standard

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)
1,950.00	0.40	228.49	1,949.93	-8.12	-9.92	9.63	0.00	0.00	0.00
2,007.00	0.70	282.60	2,006.93	-8.17	-10.41	10.11	1.00	0.53	94.93
First Phoenix MWD Survey									
2,038.00	3.00	279.60	2,037.91	-8.00	-11.40	11.10	7.42	7.42	-9.68
2,069.00	6.30	278.10	2,068.80	-7.62	-13.88	13.60	10.65	10.65	-4.84
2,100.00	10.00	277.80	2,099.49	-7.02	-18.23	17.97	11.94	11.94	-0.97
2,132.00	13.70	278.30	2,130.80	-6.09	-24.74	24.50	11.57	11.56	1.56
2,163.00	17.40	278.50	2,160.66	-4.88	-32.96	32.76	11.94	11.94	0.65
2,194.00	20.90	278.40	2,189.94	-3.38	-43.02	42.87	11.29	11.29	-0.32
2,225.00	24.40	277.50	2,218.54	-1.74	-54.84	54.74	11.35	11.29	-2.90



Survey Report



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County, New Mexico (NAD83 NME)	TVD Reference:	KB @ 3432.50usft (Silver Oak 11)
Site:	Lola BUG	MD Reference:	KB @ 3432.50usft (Silver Oak 11)
Well:	#1H	North Reference:	Grid
Wellbore:	WB1/Job #1311664	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Silver Oak 11)	Database:	Compass 5000 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)
2,257.00	27.70	275.50	2,247.29	-0.16	-68.80	68.75	10.67	10.31	-6.25
2,288.00	30.90	273.10	2,274.32	0.96	-83.92	83.90	10.99	10.32	-7.74
2,319.00	34.10	271.60	2,300.46	1.63	-100.56	100.56	10.64	10.32	-4.84
2,350.00	37.40	271.00	2,325.62	2.04	-118.67	118.66	10.70	10.65	-1.94
2,381.00	40.40	271.00	2,349.74	2.38	-138.13	138.12	9.68	9.68	0.00
2,413.00	43.30	270.90	2,373.58	2.73	-159.47	159.47	9.06	9.06	-0.31
2,444.00	46.20	271.00	2,395.59	3.10	-181.29	181.29	9.36	9.35	0.32
2,475.00	49.30	270.80	2,416.43	3.45	-204.23	204.23	10.01	10.00	-0.65
2,506.00	52.40	270.90	2,436.00	3.81	-228.27	228.26	10.00	10.00	0.32
2,538.00	55.50	271.50	2,454.83	4.36	-254.13	254.12	9.81	9.69	1.88
2,569.00	58.00	271.90	2,471.82	5.13	-280.04	280.05	8.14	8.06	1.29
2,600.00	60.60	272.00	2,487.65	6.03	-306.68	306.70	8.39	8.39	0.32
2,631.00	63.20	272.30	2,502.25	7.06	-334.00	334.04	8.43	8.39	0.97
2,662.00	65.70	272.50	2,515.62	8.23	-361.95	362.01	8.09	8.06	0.65
2,693.00	68.10	272.60	2,527.78	9.50	-390.43	390.52	7.75	7.74	0.32
2,725.00	69.90	272.30	2,539.25	10.78	-420.28	420.39	5.69	5.63	-0.94
2,756.00	71.70	272.20	2,549.44	11.93	-449.53	449.67	5.81	5.81	-0.32
2,787.00	73.60	272.00	2,558.69	13.01	-479.10	479.25	6.16	6.13	-0.65
2,816.97	76.02	271.81	2,566.54	13.97	-508.00	508.18	8.09	8.06	-0.65
330' Hardline									
2,818.00	76.10	271.80	2,566.79	14.00	-509.00	509.17	8.09	8.06	-0.64
2,849.00	78.10	271.80	2,573.71	14.95	-539.20	539.39	6.45	6.45	0.00
2,880.00	80.30	272.00	2,579.52	15.96	-569.63	569.84	7.13	7.10	0.65
2,911.00	82.60	272.30	2,584.13	17.11	-600.27	600.49	7.48	7.42	0.97
2,942.00	84.80	272.40	2,587.53	18.37	-631.05	631.30	7.10	7.10	0.32
2,965.00	86.50	272.00	2,589.27	19.25	-653.97	654.24	7.59	7.39	-1.74
2,996.00	89.10	272.30	2,590.46	20.42	-684.92	685.21	8.44	8.39	0.97
3,027.00	90.20	272.50	2,590.65	21.71	-715.89	716.21	3.61	3.55	0.65
3,121.00	92.10	272.00	2,588.76	25.40	-809.80	810.18	2.09	2.02	-0.53
3,214.00	91.60	272.50	2,585.76	29.05	-902.67	903.14	0.76	-0.54	0.54
3,308.00	90.90	272.50	2,583.71	33.15	-996.56	997.11	0.74	-0.74	0.00
3,401.00	92.20	271.60	2,581.20	36.48	-1,089.47	1,090.07	1.70	1.40	-0.97
3,495.00	91.70	271.00	2,578.00	38.61	-1,183.39	1,184.01	0.83	-0.53	-0.64
3,589.00	89.70	270.50	2,576.85	39.84	-1,277.37	1,277.97	2.19	-2.13	-0.53
3,682.00	90.60	269.80	2,576.61	40.08	-1,370.36	1,370.92	1.23	0.97	-0.75
3,775.00	90.70	271.80	2,575.55	41.38	-1,463.34	1,463.89	2.15	0.11	2.15
3,869.00	89.60	272.30	2,575.30	44.74	-1,557.28	1,557.88	1.29	-1.17	0.53
3,962.00	90.90	271.80	2,574.90	48.07	-1,650.22	1,650.88	1.50	1.40	-0.54
4,056.00	89.80	272.00	2,574.32	51.19	-1,744.16	1,744.88	1.19	-1.17	0.21
4,149.00	90.60	271.80	2,574.00	54.27	-1,837.11	1,837.88	0.89	0.86	-0.22
4,243.00	90.40	272.50	2,573.18	57.80	-1,931.04	1,931.87	0.77	-0.21	0.74
4,336.00	89.60	273.60	2,573.18	62.75	-2,023.91	2,024.85	1.46	-0.86	1.18
4,430.00	90.60	273.20	2,573.01	68.32	-2,117.74	2,118.83	1.15	1.06	-0.43



Survey Report



Company:	Yates Petroleum Corp	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County, New Mexico (NAD83 NME)	TVD Reference:	KB @ 3432.50usft (Silver Oak 11)
Site:	Lola BUG	MD Reference:	KB @ 3432.50usft (Silver Oak 11)
Well:	#1H	North Reference:	Grid
Wellbore:	WB1/Job #131664	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Silver Oak 11)	Database:	Compass 5000 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)
4,524.00	91.00	272.00	2,571.70	72.58	-2,211.63	2,212.81	1.35	0.43	-1.28
4,618.00	89.10	271.80	2,571.62	75.70	-2,305.58	2,306.81	2.03	-2.02	-0.21
4,711.00	90.00	271.60	2,572.35	78.46	-2,398.53	2,399.80	0.99	0.97	-0.22
4,805.00	91.60	271.30	2,571.04	80.84	-2,492.49	2,493.78	1.73	1.70	-0.32
4,898.00	90.50	272.60	2,569.33	84.00	-2,585.42	2,586.77	1.83	-1.18	1.40
4,992.00	89.10	272.60	2,569.66	88.27	-2,679.32	2,680.76	1.49	-1.49	0.00
5,086.00	89.90	272.90	2,570.48	92.78	-2,773.20	2,774.75	0.91	0.85	0.32
5,180.00	91.00	273.20	2,569.74	97.78	-2,867.07	2,868.73	1.21	1.17	0.32
5,274.00	89.60	273.60	2,569.25	103.35	-2,960.90	2,962.70	1.55	-1.49	0.43
5,367.00	89.60	272.90	2,569.90	108.62	-3,053.74	3,055.68	0.75	0.00	-0.75
5,461.00	90.80	272.60	2,569.57	113.13	-3,147.63	3,149.67	1.32	1.28	-0.32
5,554.00	91.90	272.30	2,567.38	117.11	-3,240.52	3,242.64	1.23	1.18	-0.32
5,648.00	90.80	271.50	2,565.17	120.22	-3,334.44	3,336.61	1.45	-1.17	-0.85
5,741.00	89.40	271.00	2,565.01	122.25	-3,427.42	3,429.60	1.60	-1.51	-0.54
5,834.00	90.50	270.90	2,565.09	123.79	-3,520.40	3,522.58	1.19	1.18	-0.11
5,928.00	91.80	270.70	2,563.20	125.11	-3,614.37	3,616.53	1.40	1.38	-0.21
6,021.00	91.50	271.70	2,560.52	127.05	-3,707.31	3,709.48	1.12	-0.32	1.08
6,114.00	90.40	272.50	2,558.98	130.46	-3,800.23	3,802.47	1.46	-1.18	0.86
6,208.00	91.20	272.90	2,557.67	134.89	-3,894.12	3,896.45	0.95	0.85	0.43
6,302.00	90.50	271.80	2,556.27	138.74	-3,988.03	3,990.44	1.39	-0.74	-1.17
6,395.00	91.00	271.00	2,555.06	141.01	-4,080.99	4,083.42	1.01	0.54	-0.86
6,489.00	90.60	271.00	2,553.74	142.65	-4,174.97	4,177.40	0.43	-0.43	0.00
6,582.00	89.40	271.70	2,553.74	144.84	-4,267.94	4,270.39	1.49	-1.29	0.75
6,676.00	90.20	271.30	2,554.07	147.31	-4,361.91	4,364.38	0.95	0.85	-0.43
6,770.00	91.30	271.20	2,552.84	149.36	-4,455.87	4,458.36	1.18	1.17	-0.11
6,864.00	90.60	272.50	2,551.28	152.39	-4,549.81	4,552.35	1.57	-0.74	1.38
6,957.00	91.70	272.80	2,549.42	156.69	-4,642.69	4,645.32	1.23	1.18	0.32
7,051.00	91.00	272.40	2,547.20	160.95	-4,736.57	4,739.29	0.86	-0.74	-0.43
7,144.00	89.60	273.00	2,546.71	165.33	-4,829.46	4,832.28	1.64	-1.51	0.65
7,238.00	90.20	273.30	2,546.88	170.50	-4,923.32	4,926.26	0.71	0.64	0.32
7,331.00	91.20	272.20	2,545.74	174.96	-5,016.20	5,019.25	1.60	1.08	-1.18
7,389.00	92.00	272.40	2,544.12	177.29	-5,074.13	5,077.22	1.42	1.38	0.34
Last Phoenix MWD Survey									
7,464.00	92.00	272.40	2,541.51	180.42	-5,149.02	5,152.18	0.00	0.00	0.00
Projection to TD									

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,007.00	2,006.93	-8.17	-10.41	First Phoenix MWD Survey
2,816.97	2,566.54	13.97	-508.00	330' Hardline
7,389.00	2,544.12	177.29	-5,074.13	Last Phoenix MWD Survey
7,464.00	2,541.51	180.42	-5,149.02	Projection to TD



Survey Report



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County, New Mexico (NAD83 NME)	TVD Reference:	KB @ 3432.50usft (Silver Oak 11)
Site:	Lola BUG	MD Reference:	KB @ 3432.50usft (Silver Oak 11)
Well:	#1H	North Reference:	Grid
Wellbore:	WB1/Job #1311664	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Silver Oak 11)	Database:	Compass 5000 GCR DB

Checked By:	_____	Approved By:	_____	Date:	_____
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Project: Eddy County, New Mexico (NAD83 NME)
Site: Lola BUG
Well: #1H
Wellbore: WB1/Job #1311664
Design: Plan #2 12-14-13
Rig: Silver Oak 11



PHOENIX
TECHNOLOGY SERVICES



Azimuths to Grid North:
True North: 0.03°
Magnetic North: 7.73°
Magnetic Field
Strength: 48583.6snT
Dip Angle: 60.45°
Date: 12/03/2013
Model: IGRF2010_14

WELL DETAILS

+N-S	+E-W	Nothing	Ground Level	Easting	Latitude	Longitude
0.00	0.00	629936.65	3414.00	522428.26	32° 43' 54.21009 N	104° 23' 41.37574 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSeet	Target	Annotation
1	1950.00	0.40	226.49	1949.93	-8.12	-9.92	0.00	0.00	9.63		Tie-on to Gyro
2	2020.00	0.40	226.49	2019.93	-8.44	-10.29	0.00	0.00	9.98		KOP: 9.98°/100° Build
3	2529.67	90.62	272.19	2594.00	11.05	-593.18	9.93	43.70	593.20		LP: Hold 90.62° Inc
4	7489.26	90.62	272.19	2545.00	185.29	-5149.18	0.00	0.00	5152.51	PBHL-Lola Bug #1H	TD at 7489.26

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Nothing	Easting	Latitude	Longitude	Shape
PBHL-Lola Bug #1H	2545.00	185.29	-5149.18	630123.94	517279.08	32° 43' 56.00999 N	104° 24' 41.66018 W	Point
PP-Lola Bug #1H	2588.63	7.83	-508.30	629946.48	521919.96	32° 43' 54.28466 N	104° 23' 47.32660 W	Point

Map System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone Name: New Mexico Eastern Zone

Local Origin: Well #1H, Grid North

Latitude: 32° 43' 54.21009 N
Longitude: 104° 23' 41.37574 W

Grid East: 522428.26
Grid North: 629936.65
Scale Factor: 1.000

Geomagnetic Model: IGRF2010_14
Sample Date: 03-Dec-13

Magnetic Declination: 7.70°

Dip Angle from Horizontal: 60.45°

Magnetic Field Strength: 48584

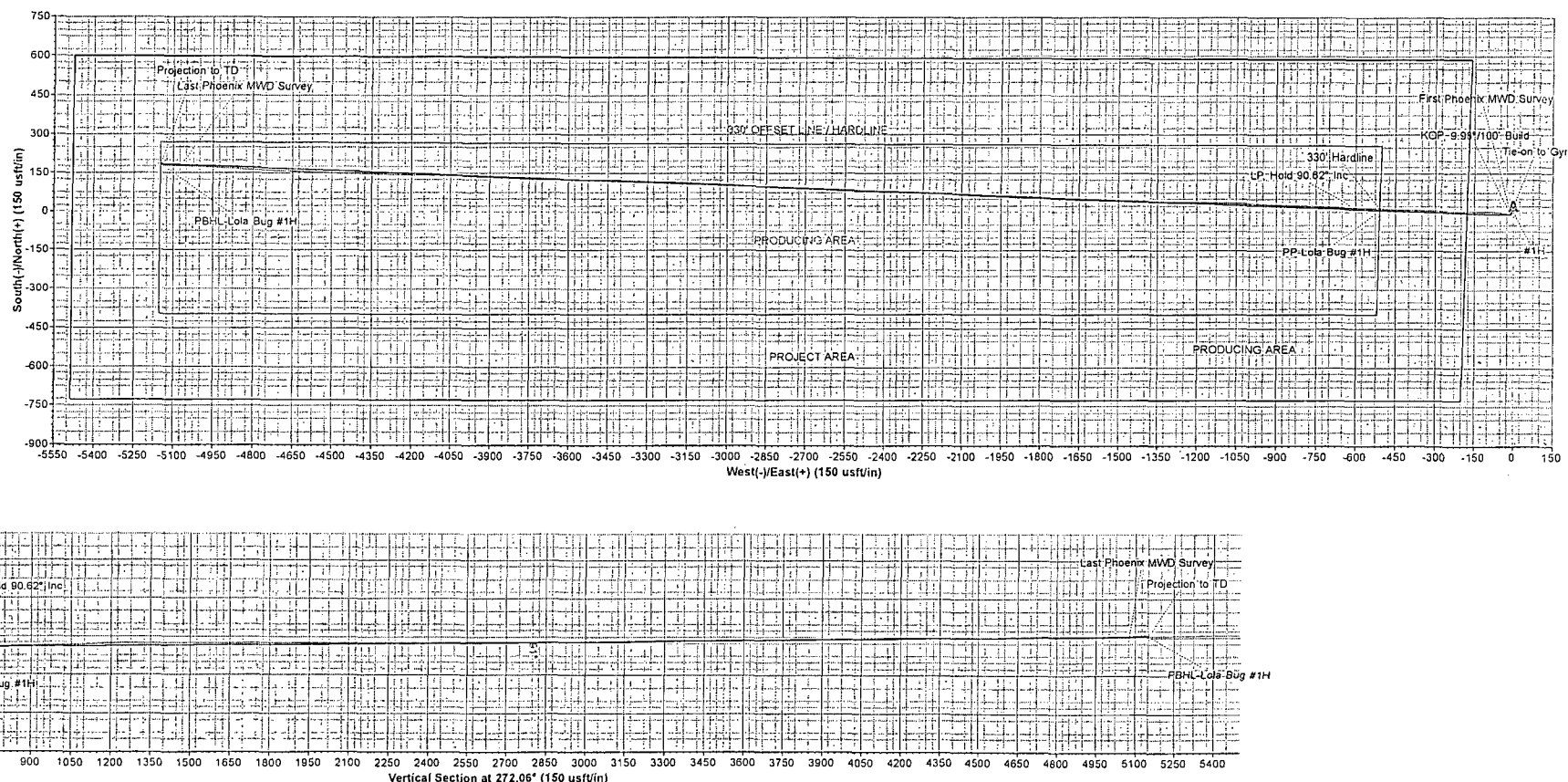
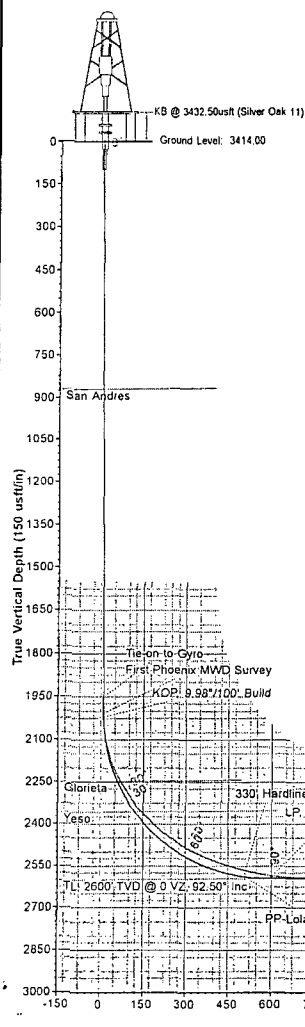
To convert a Magnetic Direction to a Grid Direction, Add 7.73°
To convert a Magnetic Direction to a True Direction, Add 7.70° East
To convert a True Direction to a Grid Direction, Add 0.03°

LEGEND

— #1H, WB1/Job #1311664, Surveys (Silver Oak 11) V0
— Plan #2 12-14-13

FORMATION TOP DETAILS

TVDPath	MDPath	Formation	DipAngle	DipDir
2247.37	2254.05	Glorieta	-0.62	272.06
2356.70	2380.28	Yeso	-0.62	272.06
2593.82	2907.81	TL, 2600' TVD @ 0 VZ, 92.50° inc	-0.62	272.06





RECEIVED

FEB 10 2014

YPC
MAIL ROOM

January 30, 2014

Yates Petroleum Corp.
Attn: Regulatory Department
105 South 4th Street
Artesia, NM 88210

Re: Yates Petroleum Corp.
Lola BUG #1H
Eddy County, NM
API #30-015-41604
Job No. 1311664

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	
Daniel Scott	1H	2,007	7,389	12/15/13	12/21/13	MWD

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

Best Regards,

Dolly Bush

Dolly Bush
Operations Administrator

Phoenix Technology Services SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER 1311664

OPERATOR Yates Petroleum Corp.

WELL NAME Lola BUG #1H

COUNTY & STATE Eddy County, NM

API WELL NUMBER 30-015-41604

PROPOSED DIRECTION 272.06

TIE-IN DATA						
MEASURED DEPTH	VERTICAL DEPTH	INCLIN	AZIMUTH	N-S COORD	E-W COORD	DATA SOURCE
1,950 ft	1,949.93 ft	.4 ft	228.49 ft	-8.12 ft	-9.92 ft	Surface

FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH
15-Dec-13	2,007 ft	0.7	282.6

SURVEY INSTRUMENT TYPE
Phoenix MWD

LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH
21-Dec-13	7,389 ft	92	272.4

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

PROJECTED TD SURVEY DATE	PROJECTED TD SURVEY DEPTH	INCLIN	AZIMUTH
21-Dec-13	7,464 ft	92	272.4

Daniel Scott

PRINT YOUR NAME ABOVE

Daniel Scott

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	7.73
DECLINATION OR GRID	GRID

12/21/2013

TODAY'S DATE

MWD SUPERVISOR 1

Daniel Scott

DIRECTIONAL DRILLER 1

Brian Terrell

MWD SUPERVISOR 2

Travis LaGarce

DIRECTIONAL DRILLER 2

Dan Waggoner

1805 Brittmore Road

Houston, Texas 77043

(713)3370609 (Voice), (713)337-0599 (Fax)