

Results of Directional Survey

API number:	30-025-40515			
OGRID:		Operator:	YATES PETROLEUM CORPORATION	
		Property:	TAIPAN BST STATE	# 1H

surface	ULSTR:	C	31	T	24S	R	33E
				175	FNL	2200	FWL

BH Loc	ULSTR:	N	31	T	24S	R	33E
15778	MD	11073.6	TVD	230	FSL	2220	FWL
				5050	FNL		

Top Perf/OH	ULSTR:	C	31	T	24S	R	33E
11459	MD	11132.6	TVD	733	FNL	2150	FWL

Bot Perf/OH	ULSTR:	N	31	T	24S	R	33E
15677	MD	11073.9	TVD	331	FSL	2220	FWL
				4949	FNL		

	MD	N/S	E/W	VD
	11451	-549.60	-49.90	11132.3
TOP PERFS/OH	11459	-557.60	-50.06	11132.59
	11481	-579.60	-50.50	11133.40
	15653	-4749.80	20.30	11074.00
BOT PERFS/OH	15677	-4773.80	20.30	11073.91
	15679	-4775.80	20.30	11073.90

NEXT TO LAST	15723	-4819.80	20.20	11073.70
LAST READING	15778.5	-4875.30	20.00	11073.60
TD	15778	-4874.80	20.00	11073.60

Surface Location	175	FN	2200	FW
Projected BHL	5050	FN	2220	FW
Location of				
Top Perfs/OH	733	FN	2150	FW
Bottom Perfs/OH	4949	FN	2220	FW

SUMMARY of Subsurface Locations

Surface Location	C-31-24S-33E	175	FN	2200	FW	Vert. Depth
Top Perfs/OH	C-31-24S-33E	733	FN	2150	FW	11132.59
Bottom Perfs/OH	N-31-24S-33E	4949	FN	2220	FW	11073.91
Projected TD	N-31-24S-33E	5050	FN	2220	FW	11073.60

JUL 15 2014



Job Number: SVMO-140250
 Company: Yates Petroleum Corporation
 Lease/Well: Taipan BST State 1H
 Location: Lea County, NM
 Rig Name: Nomac #22
 RKB: 21.5'
 G.L. or M.S.L.: GL

State/Country: New Mexico/USA
 Declination: 6.90°
 Grid: East To Grid North
 File name: S:\2014SU-1\YATES\MOITAIPAN-11H.SVY
 Date/Time: 03-Mar-14 / 13:55
 Curve Name: Surface - 1130' M.D. (Rate Gyro)

MS SURVEY

HOBBS OCD

JUN 03 2014

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WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method

Vertical Section Plane 179.57

Vertical Section Referenced to Wellhead

Rectangular Coordinates Referenced to Wellhead

We hereby certify that our survey data from
 Surface MD to 1130' MD is, to the best of
 our knowledge a true and accurate account of the
 well bore.

Clayton Smith
 MS Energy Services

3/3/14
 Date

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.25	166.36	100.00	-.21	.05	.21	.22	166.36	.25
200.00	.31	160.21	200.00	-.68	.19	.68	.71	164.01	.07
300.00	.22	154.78	300.00	-1.11	.37	1.11	1.17	161.61	.09
400.00	.14	156.85	400.00	-1.39	.50	1.40	1.48	160.34	.08
500.00	.07	280.57	500.00	-1.49	.49	1.50	1.57	161.99	.19
600.00	.29	291.80	600.00	-1.39	.19	1.39	1.40	172.18	.22
700.00	.32	294.95	699.99	-1.18	-.30	1.17	1.21	194.18	.03
800.00	.35	291.30	799.99	-.95	-.84	.94	1.26	221.37	.04
900.00	.51	290.71	899.99	-.68	-1.54	.67	1.68	246.13	.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	.51	291.04	999.99	-.36	-2.37	.34	2.40	261.29	.00
1100.00	.58	298.37	1099.98	.04	-3.23	-.06	3.23	270.67	.10
Last Survey Depth Recorded									
1130.00	.61	301.96	1129.98	.19	-3.50	-.22	3.50	273.18	.16

Yates Petroleum

Lea County, NM (NAD-83)

Taipan BST State

#1H

Wellbore #1

Design: Wellbore #1

HOBBS OCD

JUN 03 2014

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Survey Report - Geographic

11 March, 2014

Survey Report - Geographic

Company:	Yates Petroleum	Local Co-ordinate Reference:	Well #1H
Project:	Lea County, NM (NAD-83)	TVD Reference:	RKB @ 3561.5usft (Nomac 22)
Site:	Taipan BST State	MD Reference:	RKB @ 3561.5usft (Nomac 22)
Well:	#1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Houston R5000 Database

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:		Taipan BST State						
Site Position:		Northing:		430,310.93 usft	Latitude:		32° 10' 51.419 N	
From:	Map	Easting:		764,284.19 usft	Longitude:		103° 36' 45.764 W	
Position Uncertainty:		0.0 usft	Slot Radius:		13-3/16 "	Grid Convergence:		0.38 °

Well:	#1H					
Well Position	+N-S	0.0 usft	Northings:	430,310.93 usft	Latitude:	32° 10' 51.419 N
	+E-W	0.0 usft	Easting:	764,284.19 usft	Longitude:	103° 36' 45.764 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,540.0 usft	

Wellbore:	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/15/2014	7.28	60.08	48,326

Design:	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)	
	0.0	0.0	0.0	179.57	

Survey Program	Date: 3/11/2014				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	1,130.0	Survey #1 - Gyros (Wellbore #1)	Good_gyro	Good Gyro	
1,151.0	15,778.5	Survey #2 - Crescent MWD Surveys (Well	MWD	MWD - Standard	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.0	0.00	0.00	0.0	0.0	0.0	430,310.93	764,284.19	32° 10' 51.419 N	103° 36' 45.764 W	
100.0	0.25	166.36	100.0	-0.2	0.1	430,310.72	764,284.24	32° 10' 51.417 N	103° 36' 45.763 W	
200.0	0.31	160.21	200.0	-0.7	0.2	430,310.26	764,284.38	32° 10' 51.412 N	103° 36' 45.762 W	
300.0	0.22	154.78	300.0	-1.1	0.4	430,309.83	764,284.56	32° 10' 51.408 N	103° 36' 45.760 W	
400.0	0.14	156.85	400.0	-1.4	0.5	430,309.54	764,284.69	32° 10' 51.405 N	103° 36' 45.758 W	
500.0	0.07	280.57	500.0	-1.5	0.5	430,309.44	764,284.67	32° 10' 51.404 N	103° 36' 45.758 W	
600.0	0.29	291.80	600.0	-1.4	0.2	430,309.54	764,284.38	32° 10' 51.405 N	103° 36' 45.762 W	
700.0	0.32	294.95	700.0	-1.2	-0.3	430,309.76	764,283.89	32° 10' 51.407 N	103° 36' 45.767 W	
800.0	0.35	291.30	800.0	-0.9	-0.8	430,309.99	764,283.35	32° 10' 51.410 N	103° 36' 45.774 W	
900.0	0.51	290.71	900.0	-0.7	-1.5	430,310.25	764,282.65	32° 10' 51.412 N	103° 36' 45.782 W	
1,000.0	0.51	291.04	1,000.0	-0.4	-2.4	430,310.57	764,281.82	32° 10' 51.416 N	103° 36' 45.791 W	

Survey Report - Geographic

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Project:	Lea County, NM (NAD-83)	TVD Reference:	RKB @ 3561.5usft (Nomac 22)
Site:	Taipan BST State	MD Reference:	RKB @ 3561.5usft (Nomac 22)
Well:	#1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Houston R5000 Database

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,100.0	0.58	298.37	1,100.0	0.0	-3.2	430,310.97	764,280.96	32° 10' 51.420 N	103° 36' 45.801 W
1,130.0	0.61	301.96	1,130.0	0.2	-3.5	430,311.13	764,280.69	32° 10' 51.421 N	103° 36' 45.805 W
1,151.0	0.70	308.00	1,151.0	0.3	-3.7	430,311.27	764,280.50	32° 10' 51.422 N	103° 36' 45.807 W
1,244.0	1.10	300.20	1,244.0	1.1	-4.9	430,312.06	764,279.28	32° 10' 51.430 N	103° 36' 45.821 W
1,337.0	1.10	304.40	1,337.0	2.1	-6.4	430,313.02	764,277.77	32° 10' 51.440 N	103° 36' 45.838 W
1,431.0	1.10	297.50	1,430.9	3.0	-8.0	430,313.94	764,276.22	32° 10' 51.449 N	103° 36' 45.856 W
1,524.0	1.50	292.70	1,523.9	3.9	-9.9	430,314.83	764,274.31	32° 10' 51.458 N	103° 36' 45.879 W
1,617.0	0.90	268.00	1,616.9	4.3	-11.7	430,315.27	764,272.46	32° 10' 51.463 N	103° 36' 45.900 W
1,710.0	0.90	267.40	1,709.9	4.3	-13.2	430,315.21	764,271.00	32° 10' 51.462 N	103° 36' 45.917 W
1,804.0	1.10	268.20	1,803.9	4.2	-14.8	430,315.15	764,269.36	32° 10' 51.462 N	103° 36' 45.936 W
1,898.0	1.20	273.60	1,897.8	4.3	-16.7	430,315.18	764,267.47	32° 10' 51.462 N	103° 36' 45.958 W
1,991.0	1.40	276.90	1,990.8	4.4	-18.8	430,315.38	764,265.37	32° 10' 51.464 N	103° 36' 45.983 W
2,084.0	1.50	276.50	2,083.8	4.7	-21.2	430,315.66	764,263.04	32° 10' 51.467 N	103° 36' 46.010 W
2,178.0	1.70	278.40	2,177.8	5.1	-23.8	430,316.00	764,260.43	32° 10' 51.471 N	103° 36' 46.040 W
2,271.0	1.90	283.40	2,270.7	5.6	-26.6	430,316.56	764,257.57	32° 10' 51.476 N	103° 36' 46.073 W
2,365.0	0.60	230.80	2,364.7	5.7	-28.5	430,316.61	764,255.67	32° 10' 51.477 N	103° 36' 46.095 W
2,458.0	0.70	199.80	2,457.7	4.8	-29.1	430,315.77	764,255.10	32° 10' 51.469 N	103° 36' 46.102 W
2,551.0	0.70	213.50	2,550.7	3.8	-29.6	430,314.76	764,254.60	32° 10' 51.459 N	103° 36' 46.108 W
2,644.0	1.00	219.50	2,643.7	2.7	-30.4	430,313.66	764,253.77	32° 10' 51.448 N	103° 36' 46.118 W
2,738.0	1.10	223.10	2,737.6	1.4	-31.6	430,312.37	764,252.63	32° 10' 51.435 N	103° 36' 46.131 W
2,831.0	1.10	223.00	2,830.6	0.1	-32.8	430,311.06	764,251.41	32° 10' 51.422 N	103° 36' 46.145 W
2,926.0	1.20	218.70	2,925.6	-1.3	-34.0	430,309.62	764,250.17	32° 10' 51.408 N	103° 36' 46.160 W
3,019.0	1.40	213.30	3,018.6	-3.0	-35.3	430,307.91	764,248.93	32° 10' 51.391 N	103° 36' 46.174 W
3,112.0	1.80	209.00	3,111.5	-5.3	-36.6	430,305.68	764,247.60	32° 10' 51.369 N	103° 36' 46.190 W
3,206.0	0.50	212.20	3,205.5	-6.9	-37.5	430,304.04	764,246.67	32° 10' 51.353 N	103° 36' 46.201 W
3,299.0	0.40	202.50	3,298.5	-7.5	-37.9	430,303.40	764,246.33	32° 10' 51.347 N	103° 36' 46.205 W
3,393.0	0.60	194.50	3,392.5	-8.3	-38.1	430,302.62	764,246.08	32° 10' 51.339 N	103° 36' 46.208 W
3,486.0	0.70	198.90	3,485.5	-9.3	-38.4	430,301.61	764,245.77	32° 10' 51.329 N	103° 36' 46.212 W
3,580.0	0.80	209.90	3,579.5	-10.4	-38.9	430,300.50	764,245.26	32° 10' 51.318 N	103° 36' 46.218 W
3,673.0	1.00	221.40	3,672.5	-11.6	-39.8	430,299.33	764,244.40	32° 10' 51.307 N	103° 36' 46.228 W
3,766.0	0.70	233.00	3,765.5	-12.6	-40.8	430,298.38	764,243.41	32° 10' 51.297 N	103° 36' 46.239 W
3,860.0	0.60	223.90	3,859.5	-13.3	-41.6	430,297.68	764,242.61	32° 10' 51.291 N	103° 36' 46.249 W
3,953.0	0.90	239.80	3,952.5	-14.0	-42.5	430,296.96	764,241.64	32° 10' 51.283 N	103° 36' 46.260 W
4,046.0	0.90	237.90	4,045.5	-14.7	-43.8	430,296.20	764,240.39	32° 10' 51.276 N	103° 36' 46.275 W
4,139.0	1.10	254.50	4,138.4	-15.4	-45.3	430,295.58	764,238.91	32° 10' 51.270 N	103° 36' 46.292 W
4,232.0	1.10	255.50	4,231.4	-15.8	-47.0	430,295.11	764,237.19	32° 10' 51.266 N	103° 36' 46.312 W
4,325.0	0.80	239.90	4,324.4	-16.4	-48.4	430,294.56	764,235.76	32° 10' 51.260 N	103° 36' 46.329 W
4,419.0	0.90	209.30	4,418.4	-17.3	-49.4	430,293.59	764,234.83	32° 10' 51.251 N	103° 36' 46.340 W
4,513.0	1.30	215.60	4,512.4	-18.9	-50.3	430,292.08	764,233.85	32° 10' 51.236 N	103° 36' 46.351 W
4,606.0	0.80	193.70	4,605.4	-20.3	-51.1	430,290.59	764,233.08	32° 10' 51.221 N	103° 36' 46.360 W
4,699.0	1.00	172.70	4,698.4	-21.8	-51.2	430,289.16	764,233.03	32° 10' 51.207 N	103° 36' 46.361 W
4,792.0	1.20	162.10	4,791.3	-23.5	-50.8	430,287.42	764,233.43	32° 10' 51.190 N	103° 36' 46.356 W
4,885.0	0.70	204.70	4,884.3	-25.0	-50.7	430,285.98	764,233.49	32° 10' 51.175 N	103° 36' 46.356 W
4,978.0	1.30	172.50	4,977.3	-26.5	-50.8	430,284.42	764,233.39	32° 10' 51.160 N	103° 36' 46.357 W
5,001.0	1.20	165.50	5,000.3	-27.0	-50.7	430,283.93	764,233.49	32° 10' 51.155 N	103° 36' 46.356 W
5,061.0	1.20	167.20	5,060.3	-28.2	-50.4	430,282.71	764,233.79	32° 10' 51.143 N	103° 36' 46.353 W
5,154.0	1.40	170.40	5,153.3	-30.3	-50.0	430,280.64	764,234.19	32° 10' 51.122 N	103° 36' 46.348 W
5,341.0	1.40	102.70	5,340.2	-33.1	-47.4	430,277.88	764,236.80	32° 10' 51.095 N	103° 36' 46.318 W
5,528.0	1.40	100.40	5,527.2	-34.0	-42.9	430,276.97	764,241.28	32° 10' 51.086 N	103° 36' 46.266 W
5,715.0	1.10	24.50	5,714.1	-32.7	-39.9	430,278.19	764,244.27	32° 10' 51.098 N	103° 36' 46.231 W
5,902.0	1.10	24.70	5,901.1	-29.5	-38.4	430,281.45	764,245.76	32° 10' 51.130 N	103° 36' 46.213 W
6,089.0	1.40	14.30	6,088.1	-25.6	-37.1	430,285.30	764,247.08	32° 10' 51.168 N	103° 36' 46.198 W
6,276.0	1.40	15.00	6,275.0	-21.2	-36.0	430,289.72	764,248.23	32° 10' 51.211 N	103° 36' 46.184 W
6,462.0	1.80	4.80	6,460.9	-16.1	-35.1	430,294.82	764,249.06	32° 10' 51.262 N	103° 36' 46.174 W
6,648.0	1.40	356.90	6,646.9	-10.9	-35.0	430,300.00	764,249.19	32° 10' 51.313 N	103° 36' 46.172 W

Survey Report - Geographic

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Project:	Lea County NM (NAD-83)	TVD Reference:	RKB @ 3561.5usft (Nomac 22)
Site:	Taipan BST State	MD Reference:	RKB @ 3561.5usft (Nomac 22)
Well:	#1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Houston R5000 Database

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,835.0	0.90	347.60	6,833.8	-7.2	-35.4	430,303.72	764,248.75	32° 10' 51.350 N	103° 36' 46.177 W
7,022.0	1.20	330.00	7,020.8	-4.1	-36.7	430,306.85	764,247.45	32° 10' 51.381 N	103° 36' 46.192 W
7,207.0	1.20	286.20	7,205.8	-1.9	-39.6	430,309.07	764,244.62	32° 10' 51.403 N	103° 36' 46.224 W
7,394.0	1.40	286.20	7,392.7	-0.7	-43.6	430,310.25	764,240.55	32° 10' 51.415 N	103° 36' 46.272 W
7,581.0	1.40	277.30	7,579.7	0.2	-48.1	430,311.18	764,236.09	32° 10' 51.425 N	103° 36' 46.324 W
7,768.0	1.60	259.00	7,766.6	0.0	-52.9	430,310.97	764,231.26	32° 10' 51.423 N	103° 36' 46.380 W
7,891.0	1.40	249.50	7,889.5	-0.8	-56.0	430,310.12	764,228.17	32° 10' 51.415 N	103° 36' 46.416 W
8,077.0	1.20	228.40	8,075.5	-2.9	-59.6	430,308.03	764,224.58	32° 10' 51.394 N	103° 36' 46.458 W
8,264.0	1.10	225.20	8,262.5	-5.5	-62.3	430,305.46	764,221.85	32° 10' 51.369 N	103° 36' 46.490 W
8,451.0	1.20	219.10	8,449.4	-8.3	-64.9	430,302.68	764,219.34	32° 10' 51.342 N	103° 36' 46.519 W
8,637.0	0.90	189.40	8,635.4	-11.2	-66.3	430,299.73	764,217.87	32° 10' 51.312 N	103° 36' 46.536 W
8,823.0	0.90	189.70	8,821.4	-14.1	-66.8	430,296.84	764,217.39	32° 10' 51.284 N	103° 36' 46.542 W
9,010.0	0.90	102.30	9,008.4	-15.8	-65.6	430,295.08	764,218.57	32° 10' 51.266 N	103° 36' 46.529 W
9,196.0	0.50	86.20	9,194.3	-16.1	-63.4	430,294.83	764,220.81	32° 10' 51.264 N	103° 36' 46.503 W
9,382.0	0.50	125.90	9,380.3	-16.5	-61.9	430,294.40	764,222.28	32° 10' 51.260 N	103° 36' 46.486 W
9,568.0	0.20	35.20	9,566.3	-16.7	-61.1	430,294.19	764,223.12	32° 10' 51.257 N	103° 36' 46.476 W
9,754.0	0.70	315.70	9,752.3	-15.7	-61.7	430,295.27	764,222.52	32° 10' 51.268 N	103° 36' 46.483 W
9,941.0	0.70	43.80	9,939.3	-14.0	-61.7	430,296.91	764,222.51	32° 10' 51.284 N	103° 36' 46.483 W
10,127.0	0.50	341.10	10,125.3	-12.4	-61.2	430,298.50	764,223.03	32° 10' 51.300 N	103° 36' 46.476 W
10,314.0	0.50	62.10	10,312.3	-11.3	-60.7	430,299.66	764,223.49	32° 10' 51.311 N	103° 36' 46.471 W
10,418.0	0.20	102.00	10,416.3	-11.1	-60.1	430,299.83	764,224.07	32° 10' 51.313 N	103° 36' 46.464 W
10,604.0	0.50	207.60	10,602.3	-11.9	-60.2	430,299.04	764,224.01	32° 10' 51.305 N	103° 36' 46.465 W
10,635.0	2.30	175.10	10,633.3	-12.6	-60.2	430,298.30	764,224.00	32° 10' 51.298 N	103° 36' 46.465 W
KOP: 10635.0' MD, 10633.3' TVD									
10,667.0	4.60	172.70	10,665.2	-14.5	-60.0	430,296.39	764,224.22	32° 10' 51.279 N	103° 36' 46.463 W
10,698.0	7.20	174.60	10,696.1	-17.7	-59.6	430,293.22	764,224.56	32° 10' 51.248 N	103° 36' 46.459 W
10,729.0	9.90	175.10	10,726.7	-22.3	-59.2	430,288.63	764,224.97	32° 10' 51.202 N	103° 36' 46.455 W
10,760.0	13.20	175.60	10,757.1	-28.5	-58.7	430,282.45	764,225.47	32° 10' 51.141 N	103° 36' 46.449 W
10,792.0	17.20	175.10	10,788.0	-36.8	-58.0	430,274.09	764,226.15	32° 10' 51.058 N	103° 36' 46.442 W
10,823.0	22.20	174.80	10,817.1	-47.3	-57.1	430,263.68	764,227.07	32° 10' 50.955 N	103° 36' 46.432 W
10,854.0	26.40	174.90	10,845.4	-60.0	-56.0	430,250.98	764,228.22	32° 10' 50.829 N	103° 36' 46.420 W
10,885.0	29.90	175.80	10,872.7	-74.5	-54.8	430,236.40	764,229.40	32° 10' 50.685 N	103° 36' 46.407 W
10,916.0	33.30	177.10	10,899.1	-90.7	-53.8	430,220.19	764,230.39	32° 10' 50.525 N	103° 36' 46.397 W
10,947.0	35.90	178.60	10,924.6	-108.3	-53.1	430,202.61	764,231.05	32° 10' 50.351 N	103° 36' 46.391 W
10,978.0	39.60	178.50	10,949.1	-127.3	-52.7	430,183.64	764,231.53	32° 10' 50.163 N	103° 36' 46.387 W
11,009.0	44.00	177.40	10,972.2	-147.9	-51.9	430,162.99	764,232.28	32° 10' 49.958 N	103° 36' 46.379 W
11,021.0	45.76	177.01	10,980.7	-156.4	-51.5	430,154.54	764,232.69	32° 10' 49.875 N	103° 36' 46.375 W
Cross 330' Hardline at 11021.0' MD, 45.76° INC, 177.01° AZ									
11,041.0	48.70	176.40	10,994.3	-171.1	-50.7	430,139.88	764,233.54	32° 10' 49.730 N	103° 36' 46.367 W
11,072.0	52.10	176.20	11,014.1	-194.9	-49.1	430,116.05	764,235.08	32° 10' 49.494 N	103° 36' 46.351 W
11,103.0	56.00	177.20	11,032.3	-219.9	-47.7	430,091.00	764,236.52	32° 10' 49.246 N	103° 36' 46.336 W
11,134.0	60.40	178.30	11,048.6	-246.3	-46.6	430,064.68	764,237.54	32° 10' 48.985 N	103° 36' 46.326 W
11,165.0	64.20	179.00	11,063.0	-273.7	-46.0	430,037.25	764,238.19	32° 10' 48.714 N	103° 36' 46.320 W
11,196.0	68.40	179.20	11,075.5	-302.1	-45.6	430,008.87	764,238.63	32° 10' 48.433 N	103° 36' 46.318 W
11,232.0	71.60	179.70	11,087.8	-335.9	-45.2	429,975.05	764,238.96	32° 10' 48.098 N	103° 36' 46.316 W
11,263.0	73.40	180.40	11,097.1	-365.5	-45.3	429,945.48	764,238.93	32° 10' 47.806 N	103° 36' 46.319 W
11,294.0	74.30	181.50	11,105.7	-395.2	-45.8	429,915.71	764,238.44	32° 10' 47.511 N	103° 36' 46.327 W
11,326.0	76.50	181.60	11,113.8	-426.2	-46.6	429,884.76	764,237.60	32° 10' 47.205 N	103° 36' 46.339 W
11,357.0	79.00	181.50	11,120.4	-456.5	-47.4	429,854.48	764,236.78	32° 10' 46.905 N	103° 36' 46.351 W
11,388.0	81.50	181.60	11,125.6	-487.0	-48.2	429,823.94	764,235.95	32° 10' 46.603 N	103° 36' 46.363 W
11,419.0	83.90	181.50	11,129.6	-517.7	-49.1	429,793.20	764,235.12	32° 10' 46.299 N	103° 36' 46.375 W
11,451.0	86.40	181.50	11,132.3	-549.6	-49.9	429,761.33	764,234.29	32° 10' 45.984 N	103° 36' 46.387 W
11,481.0	89.40	180.70	11,133.4	-579.6	-50.5	429,731.36	764,233.71	32° 10' 45.687 N	103° 36' 46.396 W
11,513.0	91.10	180.60	11,133.2	-611.6	-50.8	429,699.36	764,233.35	32° 10' 45.371 N	103° 36' 46.403 W
EOC: 11513.0' MD, 11133.2' TVD, 91.10° INC, 180.60° AZ, 611.2' VS									

Survey Report - Geographic

Company:	Yates Petroleum	Local Co-ordinate Reference:	Well #1H
Project:	Lea County - NM (NAD-83)	TVD Reference:	RKB @ 3561.5usft (Nomac 22)
Site:	Taipan BST State	MD Reference:	RKB @ 3561.5usft (Nomac 22)
Well:	#1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Houston R5000 Database

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,544.0	91.00	181.10	11,132.7	-642.6	-51.3	429,668.37	764,232.89	32° 10' 45.064 N	103° 36' 46.411 W
11,731.0	91.00	179.20	11,129.4	-829.5	-51.8	429,481.41	764,232.40	32° 10' 43.214 N	103° 36' 46.431 W
11,918.0	89.90	178.10	11,127.9	-1,016.5	-47.4	429,294.47	764,236.80	32° 10' 41.364 N	103° 36' 46.394 W
12,105.0	90.60	177.80	11,127.1	-1,203.3	-40.7	429,107.60	764,243.49	32° 10' 39.514 N	103° 36' 46.331 W
12,293.0	90.60	178.10	11,125.1	-1,391.2	-34.0	428,919.73	764,250.22	32° 10' 37.655 N	103° 36' 46.268 W
12,386.0	91.10	177.40	11,123.8	-1,484.1	-30.3	428,826.81	764,253.87	32° 10' 36.735 N	103° 36' 46.232 W
12,479.0	90.60	177.90	11,122.4	-1,577.0	-26.5	428,733.90	764,257.68	32° 10' 35.815 N	103° 36' 46.195 W
12,572.0	91.00	178.50	11,121.1	-1,670.0	-23.6	428,640.96	764,260.60	32° 10' 34.896 N	103° 36' 46.168 W
12,665.0	91.00	177.90	11,119.5	-1,762.9	-20.7	428,548.02	764,263.52	32° 10' 33.976 N	103° 36' 46.142 W
12,758.0	91.80	177.80	11,117.2	-1,855.8	-17.2	428,455.11	764,267.01	32° 10' 33.056 N	103° 36' 46.108 W
12,852.0	90.60	177.60	11,115.2	-1,949.7	-13.4	428,361.21	764,270.78	32° 10' 32.127 N	103° 36' 46.072 W
12,945.0	91.00	177.80	11,113.9	-2,042.6	-9.7	428,268.29	764,274.51	32° 10' 31.207 N	103° 36' 46.036 W
13,039.0	91.70	177.40	11,111.7	-2,136.5	-5.7	428,174.40	764,278.45	32° 10' 30.278 N	103° 36' 45.997 W
13,132.0	91.10	177.90	11,109.4	-2,229.4	-1.9	428,081.51	764,282.26	32° 10' 29.358 N	103° 36' 45.960 W
13,225.0	90.40	178.10	11,108.2	-2,322.4	1.3	427,988.57	764,285.51	32° 10' 28.438 N	103° 36' 45.930 W
13,318.0	91.50	178.30	11,106.7	-2,415.3	4.2	427,895.63	764,288.43	32° 10' 27.518 N	103° 36' 45.903 W
13,411.0	91.10	178.30	11,104.6	-2,508.2	7.0	427,802.70	764,291.19	32° 10' 26.599 N	103° 36' 45.878 W
13,506.0	90.60	178.50	11,103.2	-2,603.2	9.6	427,707.75	764,293.84	32° 10' 25.659 N	103° 36' 45.855 W
13,599.0	91.80	179.20	11,101.2	-2,696.1	11.5	427,614.79	764,295.70	32° 10' 24.739 N	103° 36' 45.840 W
13,692.0	91.30	179.20	11,098.7	-2,789.1	12.8	427,521.83	764,297.00	32° 10' 23.819 N	103° 36' 45.832 W
13,785.0	91.10	179.20	11,096.7	-2,882.1	14.1	427,428.86	764,298.30	32° 10' 22.899 N	103° 36' 45.824 W
13,879.0	90.30	179.20	11,095.6	-2,976.1	15.4	427,334.88	764,299.61	32° 10' 21.969 N	103° 36' 45.816 W
13,972.0	90.30	179.00	11,095.1	-3,069.0	16.9	427,241.89	764,301.07	32° 10' 21.049 N	103° 36' 45.807 W
14,065.0	91.00	179.50	11,094.1	-3,162.0	18.1	427,148.91	764,302.29	32° 10' 20.128 N	103° 36' 45.800 W
14,159.0	90.10	179.30	11,093.1	-3,256.0	19.1	427,054.92	764,303.27	32° 10' 19.198 N	103° 36' 45.796 W
14,252.0	90.60	179.70	11,092.6	-3,349.0	19.9	426,961.92	764,304.09	32° 10' 18.278 N	103° 36' 45.793 W
14,345.0	91.10	179.70	11,091.2	-3,442.0	20.4	426,868.93	764,304.57	32° 10' 17.358 N	103° 36' 45.795 W
14,438.0	90.30	179.20	11,090.1	-3,535.0	21.3	426,775.95	764,305.47	32° 10' 16.438 N	103° 36' 45.792 W
14,532.0	90.40	179.30	11,089.5	-3,629.0	22.5	426,681.96	764,306.70	32° 10' 15.507 N	103° 36' 45.785 W
14,625.0	91.00	179.70	11,088.4	-3,722.0	23.3	426,588.97	764,307.51	32° 10' 14.587 N	103° 36' 45.783 W
14,718.0	90.40	180.00	11,087.2	-3,815.0	23.6	426,495.97	764,307.75	32° 10' 13.667 N	103° 36' 45.787 W
14,811.0	91.00	179.90	11,086.1	-3,908.0	23.6	426,402.98	764,307.83	32° 10' 12.747 N	103° 36' 45.793 W
14,905.0	90.30	180.20	11,085.0	-4,001.9	23.6	426,308.99	764,307.75	32° 10' 11.817 N	103° 36' 45.802 W
14,998.0	91.10	180.00	11,083.9	-4,094.9	23.4	426,216.00	764,307.59	32° 10' 10.897 N	103° 36' 45.811 W
15,091.0	90.60	180.70	11,082.5	-4,187.9	22.8	426,123.01	764,307.02	32° 10' 9.976 N	103° 36' 45.825 W
15,184.0	91.50	180.60	11,080.8	-4,280.9	21.8	426,030.03	764,305.97	32° 10' 9.056 N	103° 36' 45.844 W
15,278.0	91.70	180.60	11,078.2	-4,374.9	20.8	425,936.07	764,304.98	32° 10' 8.127 N	103° 36' 45.863 W
15,371.0	91.30	180.20	11,075.7	-4,467.8	20.1	425,843.11	764,304.33	32° 10' 7.207 N	103° 36' 45.878 W
15,465.0	89.60	179.90	11,075.0	-4,561.8	20.1	425,749.11	764,304.25	32° 10' 6.277 N	103° 36' 45.886 W
15,558.0	90.60	179.90	11,074.8	-4,654.8	20.2	425,656.12	764,304.41	32° 10' 5.357 N	103° 36' 45.891 W
15,653.0	90.40	180.00	11,074.0	-4,749.8	20.3	425,561.12	764,304.50	32° 10' 4.417 N	103° 36' 45.898 W
15,679.0	90.29	180.07	11,073.9	-4,775.8	20.3	425,535.12	764,304.48	32° 10' 4.159 N	103° 36' 45.900 W
Cross 330° Hardline at 15679.0' MD, 90.29° INC, 180.07° AZ									
15,723.0	90.10	180.20	11,073.7	-4,819.8	20.2	425,491.12	764,304.37	32° 10' 3.724 N	103° 36' 45.905 W
15,778.5	90.10	180.20	11,073.6	-4,875.3	20.0	425,435.65	764,304.18	32° 10' 3.175 N	103° 36' 45.911 W
BHL: 15778.5' MD, 11073.6' TVD, 90.10° INC, 180.20° AZ, 4875.3' +N/-S, 20.0' +E/-W, 4875.3' VS									

Survey Report - Geographic

Company:	Yates Petroleum	Local Co-ordinate Reference:	Well #1H
Project:	Lea County, NM (NAD-83)	TVD Reference:	RKB @ 3561.5usft (Nomac 22)
Site:	Taipan BST State	MD Reference:	RKB @ 3561.5usft (Nomac 22)
Well:	#1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Houston R5000 Database

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,635.0	10,633.3	-12.6	-60.2	KOP: 10635.0' MD, 10633.3' TVD
11,021.0	10,980.7	-156.4	-51.5	Cross 330' Hardline at 11021.0' MD, 45.76° INC, 177.01° AZ
11,513.0	11,133.2	-611.6	-50.8	EOC: 11513.0' MD, 11133.2' TVD, 91.10° INC, 180.60° AZ, 611.2' VS
15,679.0	11,073.9	-4,775.8	20.3	Cross 330' Hardline at 15679.0' MD, 90.29° INC, 180.07° AZ
15,778.5	11,073.6	-4,875.3	20.0	BHL: 15778.5' MD, 11073.6' TVD, 90.10° INC, 180.20° AZ, -4875.3' +N/-S, 20.0

Checked By: _____	Approved By: _____	Date: _____
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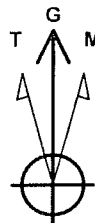


Yates Petroleum
Project: Lea County, NM (NAD-83)
Site: Taipan BST State
Well: #1H
Wellbore: Wellbore #1
Plan: Plan #3 (#1H/Wellbore #1)

WELL DETAILS: #1H

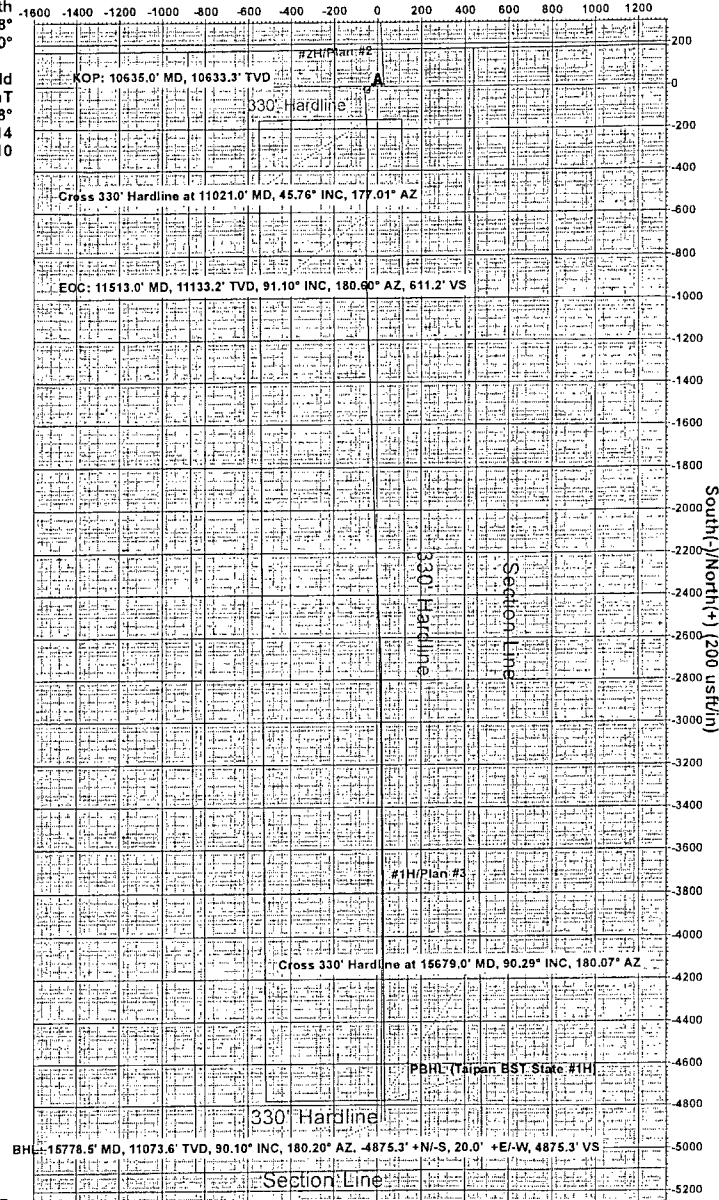
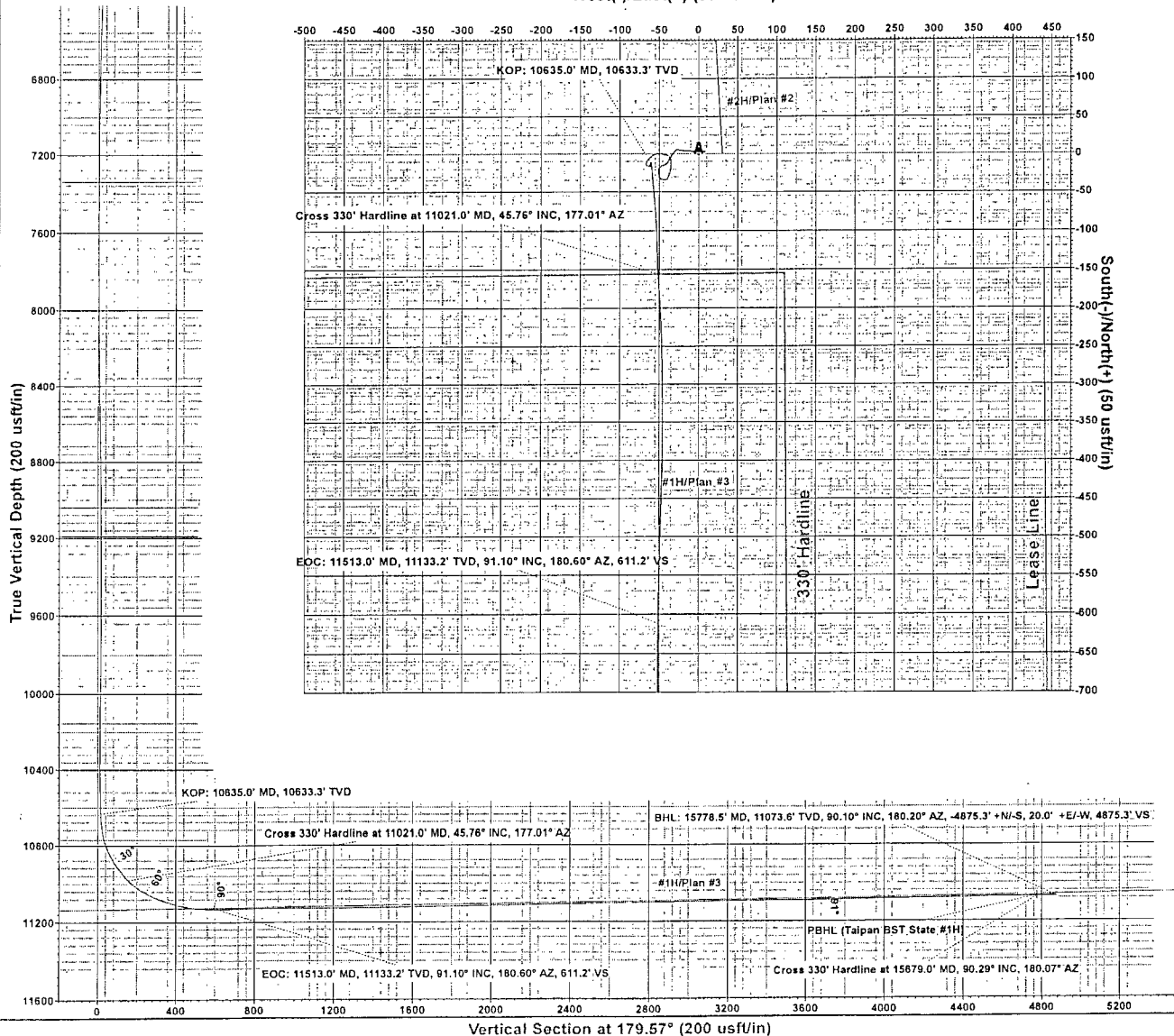
Ground Elevation:: 3540.0
RKB Elevation: RKB @ 3561.5usft (Nomac 22)
Rig Name: Nomac 22

Surface Hole Location
Northing 430310.93 Easting 764284.19 Latitude 32° 10' 51.419 N Longitude 103° 36' 45.764 W



Azimuths to Grid North
True North: -0.38°
Magnetic North: 6.90°
Magnetic Field
Strength: 48326.3snT
Dip Angle: 60.08°
Date: 1/15/2014
Model: IGRF2010

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



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



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

Plan: Plan #3 (#1H/Wellbore #1)
Created By: Adrian Castro Date: 7:16, March 11 2014