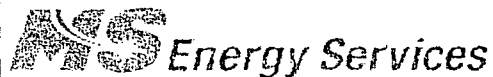


3001542147



Job Number: SVMO-140862
 Company: Yates Petroleum Corporation
 Lease/Well: Blast Bla Fed 3-H
 Location: Eddy County, NM
 Rig Name: McVay #8
 RKB: 18.5'
 G.L. or M.S.L.: GL

State/Country: New Mexico/USA
 Declination: 7.50°
 Grid: East To Grid North
 File name: Y:\WINSER-1\2014SU-1\YATES\MO\BLASTB-1\3H.SVY
 Date/Time: 26-Jun-14 / 12:33
 Curve Name: Surface - 315' M.D. (Rate Gyro)

MS Survey

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane .00
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

We hereby certify that our survey data from
 Surface MD to 315 MD is, to the best of
 our knowledge a true and accurate account of
 the well bore.
 Shawn Cooper 6/26/14
 MS Energy Services 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	.47	216.43	100.00	-.33	-.24	-.33	.41	216.43	.47
200.00	.88	182.96	199.99	-1.43	-.53	-1.43	1.52	200.26	.55
300.00	.95	197.76	299.98	-2.98	-.82	-2.98	3.09	195.36	.25
Last Survey Depth Recorded									
315.00	.95	203.18	314.98	-3.22	-.91	-3.22	3.34	195.74	.60



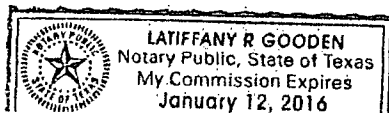
Customer Name: Yates Petroleum Corp
 Well Name: Blast BLA Federal #31-
 API Number: 30-015-42147
 County / Parish: Eddy County, NM

M.W.D. Operator: Tom Gruelle
 Directional Driller: Brett Nicols
 Total Magnetic Correction: 7.43
 Job #: NM-448

Vertical Section: 83.43

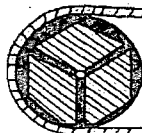
Tie In Survey(s) Provided By:

	Meas. Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	+N / -S	+E / -W	Dist.	Angle	DLS
Tie - In										
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	100.00	0.47	216.43	100.00	-0.28	-0.33	-0.24	0.41	216.43	0.47
2	200.00	0.88	182.96	199.99	-0.69	-1.43	-0.53	1.52	200.26	0.55
3	300.00	0.95	197.76	299.98	-1.16	-2.98	-0.82	3.09	195.36	0.25
4	315.00	0.95	203.18	314.98	-1.27	-3.22	-0.91	3.34	195.74	0.60
5	518.00	1.50	212.50	517.93	-3.78	-7.00	-3.00	7.62	203.16	0.29
6	548.00	1.60	213.90	547.92	-4.30	-7.68	-3.44	8.42	204.13	0.36
7	608.00	1.00	189.30	607.90	-4.98	-8.89	-3.99	9.75	204.17	1.34
8	665.00	0.90	104.30	664.90	-4.70	-9.50	-3.64	10.17	200.97	2.26
9	723.00	1.50	69.20	722.89	-3.54	-9.34	-2.49	9.66	194.92	1.59
10	812.00	1.90	72.50	811.85	-0.96	-8.48	0.01	8.48	179.95	0.46
11	896.00	2.20	73.60	895.79	1.99	-7.61	2.88	8.14	159.25	0.36
12	956.00	2.60	63.70	955.74	4.41	-6.68	5.21	8.47	142.06	0.96
13	1050.00	2.20	49.10	1049.66	7.91	-4.55	8.48	9.63	118.23	0.77
14	1144.00	3.10	58.90	1143.56	11.71	-2.06	12.02	12.20	99.72	1.07
15	1238.00	2.50	55.00	1237.45	15.82	0.43	15.88	15.88	88.45	0.67
16	1333.00	2.80	62.90	1332.34	19.82	2.67	19.64	19.82	82.25	0.50
17	1426.00	4.00	74.70	1425.18	25.15	4.57	24.79	25.21	79.57	1.49
18	1520.00	3.80	71.90	1518.96	31.44	6.40	30.92	31.57	78.31	0.29
19	1583.00	2.50	60.90	1581.87	34.76	7.72	34.10	34.96	77.25	2.27
20	1677.00	2.90	57.20	1675.76	38.79	10.00	37.89	39.19	75.22	0.46
21	1740.00	2.70	55.90	1738.69	41.53	11.70	40.46	42.12	73.88	0.33
22	1803.00	2.30	52.00	1801.63	43.93	13.31	42.68	44.71	72.69	0.69
23	1866.00	2.30	37.80	1864.58	45.89	15.08	44.46	46.94	71.26	0.90
24	1960.00	2.50	7.40	1958.50	47.70	18.61	45.88	49.51	67.92	1.35
25	2018.00	2.40	4.90	2016.44	48.25	21.07	46.14	50.73	65.46	0.25
26	2102.00	2.30	5.50	2100.37	48.95	24.50	46.45	52.52	62.19	0.12
27	2196.00	2.30	8.00	2194.30	49.82	28.25	46.90	54.75	58.94	0.11
28	2290.00	2.50	355.30	2288.22	50.36	32.16	46.99	56.94	55.62	0.60
29	2385.00	2.50	339.10	2383.13	49.92	36.16	46.08	58.57	51.88	0.74
30	2479.00	2.50	330.40	2477.04	48.61	39.86	44.34	59.62	48.05	0.40
31	2573.00	2.40	329.50	2570.95	47.01	43.33	42.33	60.58	44.33	0.11
32	2667.00	1.80	318.00	2664.89	45.35	46.13	40.34	61.28	41.17	0.78
33	2761.00	1.70	308.70	2758.85	43.52	48.10	38.26	61.46	38.50	0.32
34	2949.00	1.70	300.60	2946.76	39.33	51.26	33.69	61.34	33.31	0.13
35	3137.00	1.60	294.10	3134.68	34.85	53.75	28.89	61.02	28.26	0.11
36	3326.00	1.80	292.40	3323.60	29.99	55.96	23.74	60.79	22.99	0.11
37	3514.00	1.60	286.70	3511.52	24.99	57.84	18.49	60.72	17.73	0.14
38	3702.00	1.60	278.00	3699.45	20.04	58.96	13.38	60.46	12.79	0.13
39	3890.00	1.40	277.70	3887.38	15.27	59.63	8.51	60.23	8.12	0.11
40	4079.00	1.10	328.40	4076.34	12.27	61.49	5.27	61.71	4.90	0.58
41	4268.00	1.40	23.90	4265.30	12.67	65.14	5.25	65.35	4.61	0.63
42	4456.00	0.70	32.90	4453.27	14.57	68.21	6.81	68.54	5.70	0.38



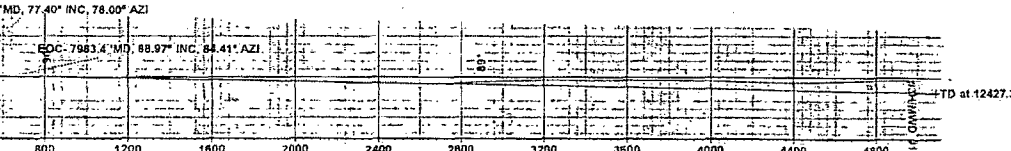
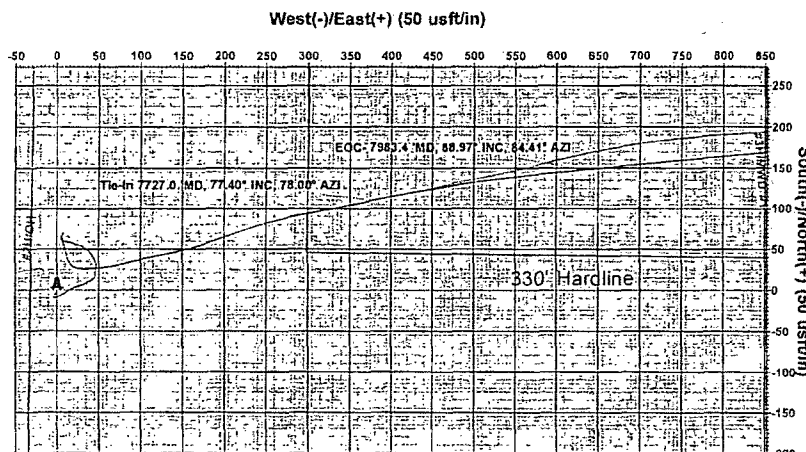
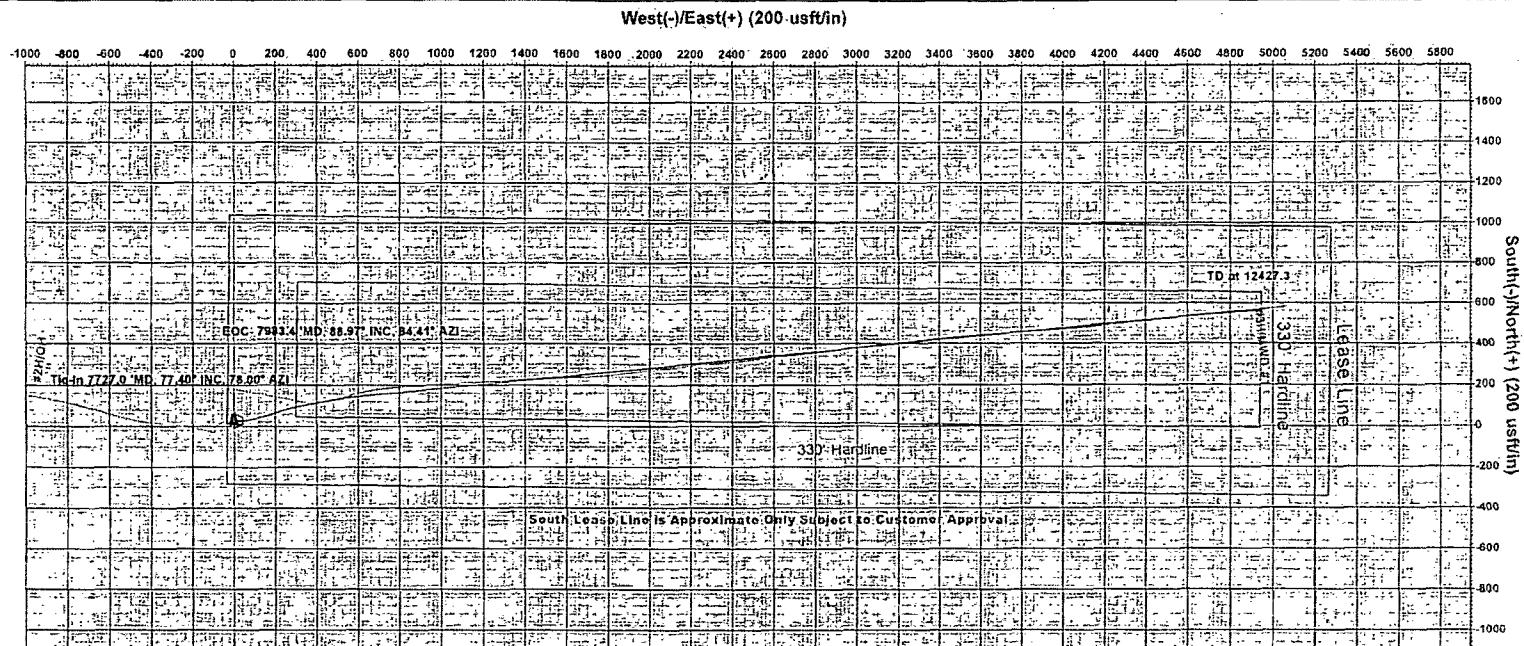
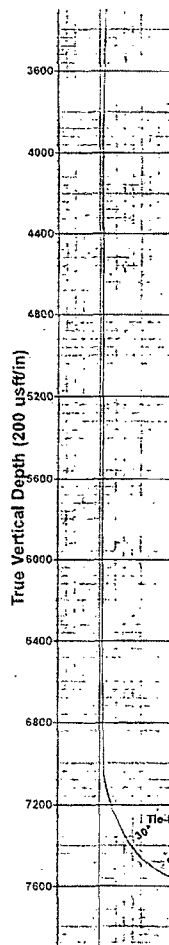
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**ATES
PETROLEUM
CORPORATION**

Project: Eddy County, NM(NAD83)
Site: Blast "BLA" Federal
Well: #3H
Wellbore: OH
Plan: Plan #4 (#3H/OH)



Vertical Section at 83.45° (200 usft/in)

#3H

Ground Elevation:: 3248.0
RKB Elevation: WELL1 @ 3266.5usft
Rig Name:

Northing 375492.20 Easting 581557.70 32° 1' 56.070 N 104° 12' 12.745 W

Section Details

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
1	7727.0	75.96	77.81	7565.3	110.4	379.2	0.00	0.00	389.3
2	7953.7	88.97	84.41	7595.0	144.8	600.6	6.42	27.20	613.2
3	12427.7	88.97	84.41	7675.4	580.6	5052.7	0.00	0.00	5085.9 PBHL(BBF#3)



Azimuths to Grid North
True North: -0.07°
Magnetic North: 7.43°

Magnetic Field
Strength: 48140.5snT
Dip Angle: 59.63°
Date: 5/19/2014
Model: IGRF2010

Terra Directional Services LLC
322 Spring Hill Drive, Suite A300, Spring, Tx 77386
Phone: 432-425-7532

PROJECT DETAILS: Eddy County, NM(NAD83)
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

JAN 13 2015

RECEIVED



Yates Petroleum Corp.

Eddy County, NM(NAD83)

Blast "BLA" Federal

#3H

OH

Survey: MWD #1

Survey Report - Geographic

14 July, 2014



Wellplanning Survey Report - Geographic

Company: Yates Petroleum Corp.
Project: Eddy County, NM(NAD83)
Site: Blast "BLA" Federal
Well: #3H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #3H
TVD Reference: WELL1 @ 3266.5usft
MD Reference: WELL1 @ 3266.5usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

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

Site	Blast "BLA" Federal		
Site Position:	Map	Northing: 375,502.50 usft	Latitude: 32° 1' 56.172 N
From:		Easting: 581,529.60 usft	Longitude: 104° 12' 13.072 W
Position Uncertainty:	0.0 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.07 °

Well	#3H		
Well Position	+N-S 0.0 usft	Northing: 375,492.20 usft	Latitude: 32° 1' 56.070 N
	+E-W 0.0 usft	Easting: 581,557.70 usft	Longitude: 104° 12' 12.745 W
Position Uncertainty	0.0 usft	Wellhead Elevation: usft	Ground Level: 3,248.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/19/2014	7.50	59.83	48,141

Design	OH				
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	83.43	

Survey Program		Date 7/14/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	12,360.0	MWD #1 (OH)	MWD	MWD - Standard

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	375,492.20	581,557.70	32° 1' 56.070 N	104° 12' 12.745 W
100.0	0.47	216.43	100.0	-0.3	-0.2	375,491.87	581,557.46	32° 1' 56.067 N	104° 12' 12.748 W
200.0	0.88	182.96	200.0	-1.4	-0.5	375,490.77	581,557.18	32° 1' 56.056 N	104° 12' 12.751 W
300.0	0.95	197.76	300.0	-3.0	-0.8	375,489.22	581,556.88	32° 1' 56.040 N	104° 12' 12.755 W
315.0	0.95	203.18	315.0	-3.2	-0.9	375,488.98	581,556.80	32° 1' 56.038 N	104° 12' 12.756 W
518.0	1.50	212.50	517.9	-7.0	-3.0	375,485.19	581,554.71	32° 1' 56.001 N	104° 12' 12.780 W
548.0	1.60	213.90	547.9	-7.7	-3.4	375,484.62	581,554.26	32° 1' 55.994 N	104° 12' 12.785 W
608.0	1.00	189.30	607.9	-8.9	-4.0	375,483.30	581,553.71	32° 1' 55.982 N	104° 12' 12.792 W
665.0	0.90	104.30	664.9	-9.5	-3.6	375,482.70	581,554.06	32° 1' 55.976 N	104° 12' 12.788 W
723.0	1.50	69.20	722.9	-9.3	-2.5	375,482.86	581,555.21	32° 1' 55.977 N	104° 12' 12.774 W
812.0	1.90	72.50	811.8	-8.5	0.0	375,483.72	581,557.71	32° 1' 55.986 N	104° 12' 12.745 W
896.0	2.20	73.60	895.8	-7.6	2.9	375,484.59	581,560.59	32° 1' 55.995 N	104° 12' 12.712 W



Wellplanning Survey Report - Geographic

Company: Yates Petroleum Corp.
Project: Eddy County, NM(NAD83)
Site: Blast "BLA" Federal
Well: #3H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #3H
TVD Reference: WELL1 @ 3266.5usft
MD Reference: WELL1 @ 3266.5usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User.Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
956.0	2.60	63.70	955.7	-6.7	5.2	375,485.52	581,562.91	32° 1' 56.004 N	104° 12' 12.685 W
1,050.0	2.20	49.10	1,049.7	-4.6	8.5	375,487.64	581,566.19	32° 1' 56.025 N	104° 12' 12.647 W
1,144.0	3.10	58.90	1,143.6	-2.1	12.0	375,490.14	581,569.73	32° 1' 56.049 N	104° 12' 12.606 W
1,238.0	2.50	55.00	1,237.4	0.4	15.9	375,492.63	581,573.58	32° 1' 56.074 N	104° 12' 12.561 W
1,333.0	2.80	62.90	1,332.3	2.7	19.6	375,494.87	581,577.34	32° 1' 56.096 N	104° 12' 12.517 W
1,426.0	4.00	74.70	1,425.2	4.6	24.8	375,496.76	581,582.50	32° 1' 56.115 N	104° 12' 12.457 W
1,520.0	3.80	71.90	1,519.0	6.4	30.9	375,498.60	581,588.62	32° 1' 56.133 N	104° 12' 12.386 W
1,583.0	2.50	60.90	1,581.9	7.7	34.1	375,499.91	581,591.80	32° 1' 56.146 N	104° 12' 12.349 W
1,677.0	2.90	57.20	1,675.8	10.0	37.9	375,502.20	581,595.59	32° 1' 56.168 N	104° 12' 12.305 W
1,740.0	2.70	55.90	1,738.7	11.7	40.5	375,503.89	581,598.16	32° 1' 56.185 N	104° 12' 12.275 W
1,803.0	2.30	52.00	1,801.6	13.3	42.7	375,505.50	581,600.39	32° 1' 56.201 N	104° 12' 12.249 W
1,866.0	2.30	37.80	1,864.6	15.1	44.5	375,507.28	581,602.16	32° 1' 56.219 N	104° 12' 12.229 W
1,960.0	2.50	7.40	1,958.5	18.6	45.9	375,510.81	581,603.58	32° 1' 56.253 N	104° 12' 12.212 W
2,018.0	2.40	4.90	2,016.4	21.1	46.1	375,513.27	581,603.84	32° 1' 56.278 N	104° 12' 12.209 W
2,102.0	2.30	5.50	2,100.4	24.5	46.5	375,516.70	581,604.16	32° 1' 56.312 N	104° 12' 12.205 W
2,196.0	2.30	8.00	2,194.3	28.2	46.9	375,520.44	581,604.60	32° 1' 56.349 N	104° 12' 12.200 W
2,290.0	2.50	355.30	2,288.2	32.2	47.0	375,524.36	581,604.69	32° 1' 56.388 N	104° 12' 12.199 W
2,385.0	2.50	339.10	2,383.1	36.2	46.1	375,528.36	581,603.79	32° 1' 56.427 N	104° 12' 12.209 W
2,479.0	2.50	330.40	2,477.0	39.9	44.3	375,532.05	581,602.04	32° 1' 56.464 N	104° 12' 12.230 W
2,573.0	2.40	329.50	2,571.0	43.3	42.3	375,535.53	581,600.03	32° 1' 56.498 N	104° 12' 12.253 W
2,667.0	1.80	318.00	2,664.9	46.1	40.3	375,538.33	581,598.04	32° 1' 56.526 N	104° 12' 12.276 W
2,761.0	1.70	308.70	2,758.8	48.1	38.3	375,540.29	581,595.97	32° 1' 56.545 N	104° 12' 12.300 W
2,949.0	1.70	300.60	2,946.8	51.3	33.7	375,543.46	581,591.39	32° 1' 56.577 N	104° 12' 12.353 W
3,137.0	1.60	294.10	3,134.7	53.8	28.9	375,545.95	581,586.59	32° 1' 56.601 N	104° 12' 12.409 W
3,326.0	1.80	292.40	3,323.6	56.0	23.7	375,548.16	581,581.44	32° 1' 56.623 N	104° 12' 12.469 W
3,514.0	1.60	286.70	3,511.5	57.8	18.5	375,550.04	581,576.20	32° 1' 56.642 N	104° 12' 12.530 W
3,702.0	1.60	278.00	3,699.4	59.0	13.4	375,551.16	581,571.08	32° 1' 56.653 N	104° 12' 12.589 W
3,890.0	1.40	277.70	3,887.4	59.6	8.5	375,551.83	581,566.21	32° 1' 56.660 N	104° 12' 12.646 W
4,079.0	1.10	328.40	4,076.3	61.5	5.3	375,553.68	581,562.97	32° 1' 56.678 N	104° 12' 12.683 W
4,268.0	1.40	23.90	4,265.3	65.1	5.3	375,557.34	581,562.96	32° 1' 56.714 N	104° 12' 12.683 W
4,456.0	0.70	32.90	4,453.3	68.2	6.8	375,560.40	581,564.51	32° 1' 56.745 N	104° 12' 12.665 W
4,644.0	0.40	37.50	4,641.3	69.7	7.8	375,561.89	581,565.53	32° 1' 56.759 N	104° 12' 12.653 W
4,833.0	0.30	5.10	4,830.3	70.7	8.3	375,562.91	581,565.98	32° 1' 56.770 N	104° 12' 12.648 W
5,020.0	0.40	209.10	5,017.3	70.6	8.0	375,562.82	581,565.71	32° 1' 56.769 N	104° 12' 12.651 W
5,209.0	0.40	193.20	5,206.3	69.4	7.5	375,561.60	581,565.23	32° 1' 56.757 N	104° 12' 12.657 W
5,397.0	0.70	211.50	5,394.2	67.8	6.8	375,559.99	581,564.48	32° 1' 56.741 N	104° 12' 12.666 W
5,585.0	0.90	174.50	5,582.2	65.3	6.3	375,557.54	581,564.03	32° 1' 56.716 N	104° 12' 12.671 W
5,773.0	1.00	170.10	5,770.2	62.3	6.7	375,554.45	581,564.45	32° 1' 56.686 N	104° 12' 12.666 W
5,961.0	1.10	168.50	5,958.2	58.9	7.4	375,551.07	581,565.09	32° 1' 56.652 N	104° 12' 12.659 W
6,149.0	1.20	161.90	6,146.1	55.2	8.4	375,547.43	581,566.06	32° 1' 56.616 N	104° 12' 12.647 W
6,338.0	1.00	169.10	6,335.1	51.7	9.3	375,543.93	581,566.99	32° 1' 56.582 N	104° 12' 12.637 W
6,432.0	1.10	165.10	6,429.1	50.1	9.7	375,542.25	581,567.38	32° 1' 56.565 N	104° 12' 12.632 W
6,526.0	1.60	158.50	6,523.1	48.0	10.4	375,540.16	581,568.09	32° 1' 56.544 N	104° 12' 12.624 W
6,620.0	2.20	163.50	6,617.0	45.0	11.4	375,537.21	581,569.08	32° 1' 56.515 N	104° 12' 12.612 W
6,714.0	2.30	165.90	6,710.9	41.4	12.4	375,533.65	581,570.05	32° 1' 56.480 N	104° 12' 12.601 W
6,809.0	2.20	156.30	6,805.9	37.9	13.5	375,530.13	581,571.25	32° 1' 56.445 N	104° 12' 12.587 W
6,903.0	2.50	155.00	6,899.8	34.4	15.1	375,526.62	581,572.84	32° 1' 56.410 N	104° 12' 12.569 W
6,997.0	3.00	160.70	6,993.7	30.2	16.8	375,522.44	581,574.52	32° 1' 56.369 N	104° 12' 12.550 W
7,077.0	8.00	105.10	7,073.3	26.8	22.9	375,519.01	581,580.60	32° 1' 56.335 N	104° 12' 12.479 W
7,108.0	11.40	89.90	7,103.9	26.3	28.0	375,518.45	581,585.74	32° 1' 56.329 N	104° 12' 12.419 W
7,140.0	14.00	88.60	7,135.1	26.4	35.1	375,518.55	581,592.78	32° 1' 56.330 N	104° 12' 12.337 W
7,171.0	16.70	86.60	7,165.0	26.7	43.3	375,518.91	581,600.97	32° 1' 56.334 N	104° 12' 12.242 W
7,202.0	19.30	84.10	7,194.5	27.5	52.8	375,519.70	581,610.52	32° 1' 56.341 N	104° 12' 12.131 W
7,234.0	21.30	81.10	7,224.5	28.9	63.8	375,521.14	581,621.52	32° 1' 56.356 N	104° 12' 12.004 W
7,265.0	22.50	78.00	7,253.2	31.0	75.2	375,523.25	581,632.89	32° 1' 56.376 N	104° 12' 11.871 W



Wellplanning Survey Report - Geographic

Company: Yates Petroleum Corp.
Project: Eddy County, NM(NAD83)
Site: Blast "BLA" Federal
Well: #3H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #3H
TVD Reference: WELL1 @ 3266.5usft
MD Reference: WELL1 @ 3266.5usft
North Reference: Grid.
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
7,297.0	23.60	75.60	7,282.7	33.9	87.4	375,526.11	581,645.08	32° 1' 56.404 N	104° 12' 11.730 W
7,326.0	25.40	76.00	7,309.1	36.9	99.0	375,529.06	581,656.74	32° 1' 56.433 N	104° 12' 11.594 W
7,358.0	26.70	77.50	7,337.8	40.1	112.7	375,532.28	581,670.42	32° 1' 56.465 N	104° 12' 11.435 W
7,389.0	30.00	77.30	7,365.1	43.3	127.1	375,535.49	581,684.78	32° 1' 56.497 N	104° 12' 11.268 W
7,420.0	34.40	76.60	7,391.3	47.0	143.2	375,539.22	581,700.87	32° 1' 56.534 N	104° 12' 11.081 W
7,452.0	38.50	74.10	7,417.1	51.9	161.5	375,544.05	581,719.25	32° 1' 56.581 N	104° 12' 10.868 W
7,483.0	42.30	71.10	7,440.7	57.9	180.7	375,550.07	581,738.41	32° 1' 56.640 N	104° 12' 10.645 W
7,514.0	46.40	69.80	7,462.8	65.1	201.1	375,557.33	581,758.82	32° 1' 56.712 N	104° 12' 10.408 W
7,546.0	50.90	70.20	7,484.0	73.3	223.7	375,565.54	581,781.39	32° 1' 56.793 N	104° 12' 10.146 W
7,577.0	54.90	72.60	7,502.7	81.2	247.1	375,573.41	581,804.82	32° 1' 56.871 N	104° 12' 9.873 W
7,609.0	58.50	76.60	7,520.2	88.3	272.9	375,580.49	581,830.60	32° 1' 56.940 N	104° 12' 9.574 W
7,640.0	63.20	78.60	7,535.3	94.1	299.3	375,586.30	581,857.03	32° 1' 56.998 N	104° 12' 9.267 W
7,671.0	68.20	79.10	7,548.1	99.6	327.0	375,591.76	581,884.75	32° 1' 57.051 N	104° 12' 8.945 W
7,695.0	71.50	78.20	7,556.3	104.0	349.1	375,596.19	581,906.83	32° 1' 57.095 N	104° 12' 8.688 W
7,728.0	76.10	77.80	7,565.6	110.6	380.1	375,602.78	581,937.82	32° 1' 57.160 N	104° 12' 8.328 W
7,759.0	79.30	78.00	7,572.2	116.9	409.7	375,609.13	581,967.43	32° 1' 57.222 N	104° 12' 7.984 W
7,790.0	81.30	78.10	7,577.4	123.3	439.6	375,615.45	581,997.33	32° 1' 57.284 N	104° 12' 7.636 W
7,822.0	82.20	78.40	7,582.0	129.7	470.6	375,621.90	582,028.33	32° 1' 57.348 N	104° 12' 7.276 W
7,853.0	82.50	78.00	7,586.1	136.0	500.7	375,628.19	582,058.40	32° 1' 57.410 N	104° 12' 6.927 W
7,885.0	83.10	77.30	7,590.1	142.8	531.7	375,634.98	582,089.42	32° 1' 57.476 N	104° 12' 6.566 W
7,916.0	85.80	76.40	7,593.1	149.8	561.8	375,642.00	582,119.46	32° 1' 57.546 N	104° 12' 6.217 W
7,948.0	87.40	75.50	7,595.0	157.6	592.7	375,649.75	582,150.45	32° 1' 57.622 N	104° 12' 5.857 W
7,979.0	88.30	76.20	7,596.2	165.1	622.8	375,657.32	582,180.48	32° 1' 57.697 N	104° 12' 5.508 W
8,011.0	89.00	78.90	7,596.9	172.0	654.0	375,664.22	582,211.72	32° 1' 57.764 N	104° 12' 5.145 W
8,042.0	89.60	80.70	7,597.3	177.5	684.5	375,669.71	582,242.23	32° 1' 57.818 N	104° 12' 4.790 W
8,073.0	89.30	82.20	7,597.6	182.1	715.2	375,674.32	582,272.88	32° 1' 57.864 N	104° 12' 4.434 W
8,105.0	90.00	84.10	7,597.8	185.9	746.9	375,678.13	582,304.65	32° 1' 57.901 N	104° 12' 4.065 W
8,199.0	87.60	86.50	7,599.8	193.6	840.6	375,685.83	582,398.30	32° 1' 57.976 N	104° 12' 2.977 W
8,293.0	87.50	86.70	7,603.8	199.2	934.3	375,691.40	582,492.05	32° 1' 58.030 N	104° 12' 1.888 W
8,387.0	90.00	86.60	7,605.8	204.7	1,028.2	375,696.89	582,585.86	32° 1' 58.083 N	104° 12' 0.798 W
8,481.0	90.40	86.90	7,605.5	210.0	1,122.0	375,702.22	582,679.70	32° 1' 58.135 N	104° 11' 59.708 W
8,575.0	88.40	86.50	7,606.5	215.4	1,215.8	375,707.63	582,773.54	32° 1' 58.187 N	104° 11' 58.617 W
8,669.0	88.60	87.10	7,608.9	220.7	1,309.7	375,712.88	582,867.36	32° 1' 58.238 N	104° 11' 57.527 W
8,763.0	89.10	86.70	7,610.8	225.8	1,403.5	375,717.96	582,961.20	32° 1' 58.287 N	104° 11' 56.437 W
8,857.0	89.10	87.30	7,612.3	230.7	1,497.4	375,722.88	583,055.06	32° 1' 58.335 N	104° 11' 55.347 W
8,951.0	89.40	87.30	7,613.5	235.1	1,591.2	375,727.31	583,148.95	32° 1' 58.377 N	104° 11' 54.256 W
9,046.0	88.60	87.10	7,615.2	239.7	1,686.1	375,731.95	583,243.82	32° 1' 58.422 N	104° 11' 53.154 W
9,140.0	88.60	85.00	7,617.5	246.2	1,779.9	375,738.42	583,337.56	32° 1' 58.485 N	104° 11' 52.064 W
9,234.0	88.60	83.20	7,619.8	255.9	1,873.3	375,748.08	583,431.03	32° 1' 58.579 N	104° 11' 50.978 W
9,328.0	88.40	83.30	7,622.3	266.9	1,966.6	375,759.12	583,524.35	32° 1' 58.688 N	104° 11' 49.894 W
9,422.0	88.70	83.70	7,624.6	277.6	2,060.0	375,769.76	583,617.72	32° 1' 58.792 N	104° 11' 48.809 W
9,517.0	88.70	83.90	7,626.8	287.8	2,154.4	375,780.02	583,712.14	32° 1' 58.892 N	104° 11' 47.712 W
9,611.0	88.70	84.60	7,628.9	297.2	2,247.9	375,789.43	583,805.64	32° 1' 58.984 N	104° 11' 46.626 W
9,705.0	89.00	85.20	7,630.8	305.6	2,341.5	375,797.79	583,899.25	32° 1' 59.065 N	104° 11' 45.538 W
9,799.0	89.40	83.60	7,632.1	314.8	2,435.1	375,806.96	583,992.79	32° 1' 59.155 N	104° 11' 44.451 W
9,893.0	89.60	84.00	7,632.9	324.9	2,528.5	375,817.11	584,086.23	32° 1' 59.254 N	104° 11' 43.366 W
9,988.0	89.80	84.20	7,633.4	334.7	2,623.0	375,826.88	584,180.73	32° 1' 59.350 N	104° 11' 42.268 W
10,082.0	92.40	82.90	7,631.6	345.2	2,716.4	375,837.43	584,274.11	32° 1' 59.453 N	104° 11' 41.183 W
10,176.0	92.50	83.00	7,627.6	356.8	2,809.6	375,848.96	584,367.31	32° 1' 59.566 N	104° 11' 40.100 W
10,270.0	92.90	82.80	7,623.2	368.4	2,902.8	375,860.57	584,460.49	32° 1' 59.680 N	104° 11' 39.017 W
10,364.0	93.10	83.10	7,618.3	379.9	2,995.9	375,872.09	584,553.65	32° 1' 59.792 N	104° 11' 37.935 W
10,459.0	90.70	82.90	7,615.1	391.5	3,090.2	375,883.66	584,647.88	32° 1' 59.906 N	104° 11' 36.840 W
10,553.0	90.30	83.50	7,614.3	402.6	3,183.5	375,894.79	584,741.21	32° 2' 0.015 N	104° 11' 35.755 W
10,647.0	89.20	84.10	7,614.7	412.7	3,277.0	375,904.94	584,834.66	32° 2' 0.114 N	104° 11' 34.669 W
10,741.0	90.20	84.00	7,615.2	422.5	3,370.4	375,914.68	584,928.15	32° 2' 0.209 N	104° 11' 33.583 W



Wellplanning

Survey Report - Geographic

Company: Yates Petroleum Corp.
Project: Eddy County, NM(NAD83)
Site: Blast "BLA" Federal
Well: #3H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #3H
TVD Reference: WELL1 @ 3266.5usft
MD Reference: WELL1 @ 3266.5usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,836.0	90.80	84.30	7,614.4	432.2	3,465.0	375,924.36	585,022.65	32° 2' 0.304 N	104° 11' 32.485 W
10,930.0	89.90	86.10	7,613.8	440.0	3,558.6	375,932.23	585,116.32	32° 2' 0.380 N	104° 11' 31.397 W
11,024.0	90.80	86.70	7,613.2	445.9	3,652.4	375,938.13	585,210.13	32° 2' 0.438 N	104° 11' 30.307 W
11,118.0	90.20	86.10	7,612.4	451.8	3,746.2	375,944.03	585,303.94	32° 2' 0.495 N	104° 11' 29.217 W
11,213.0	88.40	85.50	7,613.6	458.8	3,841.0	375,950.99	585,398.67	32° 2' 0.562 N	104° 11' 28.116 W
11,307.0	88.90	85.80	7,615.8	465.9	3,934.7	375,958.12	585,492.38	32° 2' 0.632 N	104° 11' 27.028 W
11,401.0	87.90	85.00	7,618.4	473.5	4,028.3	375,965.65	585,586.03	32° 2' 0.705 N	104° 11' 25.939 W
11,495.0	88.60	85.30	7,621.3	481.4	4,121.9	375,973.60	585,679.65	32° 2' 0.782 N	104° 11' 24.852 W
11,589.0	88.90	83.20	7,623.3	490.8	4,215.4	375,983.01	585,773.15	32° 2' 0.874 N	104° 11' 23.765 W
11,683.0	89.60	83.20	7,624.6	501.9	4,308.8	375,994.14	585,866.48	32° 2' 0.983 N	104° 11' 22.681 W
11,778.0	90.60	83.60	7,624.4	512.9	4,403.1	376,005.06	585,960.85	32° 2' 1.090 N	104° 11' 21.584 W
11,872.0	91.60	84.20	7,622.6	522.8	4,496.6	376,015.05	586,054.30	32° 2' 1.188 N	104° 11' 20.499 W
11,966.0	92.30	83.90	7,619.4	532.6	4,590.0	376,024.79	586,147.74	32° 2' 1.283 N	104° 11' 19.413 W
12,060.0	91.00	85.10	7,616.7	541.6	4,683.6	376,033.79	586,241.26	32° 2' 1.371 N	104° 11' 18.326 W
12,155.0	91.60	85.30	7,614.5	549.5	4,778.2	376,041.74	586,335.91	32° 2' 1.448 N	104° 11' 17.227 W
12,249.0	90.40	84.90	7,612.9	557.6	4,871.8	376,049.77	586,429.55	32° 2' 1.526 N	104° 11' 16.139 W
12,302.0	91.00	85.10	7,612.2	562.2	4,924.6	376,054.38	586,482.34	32° 2' 1.571 N	104° 11' 15.525 W
12,360.0	91.00	85.10	7,611.2	567.1	4,982.4	376,059.34	586,540.12	32° 2' 1.620 N	104° 11' 14.854 W
PBHL(BBF#3)									

Checked By: _____ Approved By: _____ Date: _____