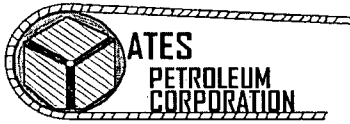


30-015-39421



NM OIL CONSERVATION
ARTESIA DISTRICT

SEP 09 2014

RECEIVED

Yates Petroleum Corp.

Eddy County, NM(NAD83)

Focus "BDB" Federal

#1H

OH

Survey: MWD #1

Standard Survey Report

01 June, 2014



Wellplanning Survey Report

Company:	Yates Petroleum Corp	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County, NM(NAD83)	TVD Reference:	WELL @ 3350.5usft (Original Well Elev)
Site:	Focus "BDB" Federal	MD Reference:	WELL @ 3350.5usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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	Focus "BDB" Federal		
Site Position:		Northing:	590,390.88 usft
From:	Map	Easting:	638,191.62 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 37' 21.507 N
		Longitude:	104° 1' 7.482 W
		Grid Convergence:	0.17 °

Well	#1H		
Well Position	+N/-S	0.0 usft	Northing: 590,390.88 usft
	+E/-W	0.0 usft	Easting: 638,191.62 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 37' 21.507 N
		Longitude:	104° 1' 7.482 W
		Ground Level:	3,332.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	4/25/2014	(°)
			7.47
			Dip Angle (°)
			60.41
			Field Strength (nT)
			48,522

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction (°)
			91.09

Survey Program	Date: 6/1/2014		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
3,673.0	12,771.0	MWD #1 (OH)	MWD
			Description
			MWD - Standard

Survey										
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)	
3,600.0	2.24	121.76	3,598.7	10.6	58.7	58.5	0.00	0.00	0.00	
3,673.0	1.50	116.80	3,671.7	9.5	60.8	60.6	1.04	-1.01	-6.79	
3,768.0	1.40	119.10	3,766.6	8.3	62.9	62.7	0.12	-0.11	2.42	
3,863.0	1.30	125.20	3,861.6	7.1	64.8	64.6	0.18	-0.11	6.42	
3,958.0	1.40	128.40	3,956.6	5.8	66.6	66.4	0.13	0.11	3.37	
4,053.0	0.90	98.70	4,051.6	5.0	68.2	68.1	0.80	-0.53	-31.26	
4,147.0	0.80	99.60	4,145.6	4.7	69.6	69.5	0.11	-0.11	0.96	
4,242.0	0.60	149.90	4,240.6	4.2	70.5	70.4	0.65	-0.21	52.95	
4,337.0	0.80	215.80	4,335.6	3.2	70.4	70.3	0.82	0.21	69.37	
4,432.0	1.30	223.20	4,430.5	1.9	69.2	69.2	0.54	0.53	7.79	



Wellplanning Survey Report

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Site:	Focus "BDB" Federal	MD Reference:	WELL @ 3350.5usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User 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)
4,527.0	1.10	205.40	4,525.5	0.3	68.1	68.1	0.44	-0.21	-18.74
4,622.0	1.30	205.90	4,620.5	-1.5	67.2	67.3	0.21	0.21	0.53
4,717.0	0.80	211.60	4,715.5	-3.0	66.4	66.5	0.54	-0.53	6.00
4,812.0	1.20	217.50	4,810.5	-4.4	65.5	65.5	0.43	0.42	6.21
4,908.0	0.60	225.40	4,906.4	-5.5	64.5	64.6	0.64	-0.63	8.23
5,002.0	1.30	221.80	5,000.4	-6.7	63.4	63.6	0.75	0.74	-3.83
5,097.0	1.10	236.20	5,095.4	-8.0	62.0	62.1	0.38	-0.21	15.16
5,192.0	0.70	270.80	5,190.4	-8.5	60.6	60.8	0.69	-0.42	36.42
5,287.0	1.20	258.00	5,285.4	-8.7	59.1	59.2	0.57	0.53	-13.47
5,382.0	0.50	193.50	5,380.4	-9.3	58.0	58.2	1.14	-0.74	-67.89
5,477.0	0.70	210.90	5,475.4	-10.2	57.6	57.8	0.28	0.21	18.32
5,572.0	1.10	223.00	5,570.4	-11.4	56.7	56.9	0.46	0.42	12.74
5,667.0	0.40	228.60	5,665.4	-12.2	55.8	56.0	0.74	-0.74	5.89
5,762.0	0.50	220.30	5,760.4	-12.8	55.3	55.5	0.13	0.11	-8.74
5,857.0	0.90	222.80	5,855.3	-13.6	54.5	54.8	0.42	0.42	2.63
5,951.0	1.00	233.00	5,949.3	-14.7	53.4	53.6	0.21	0.11	10.85
6,046.0	1.00	247.10	6,044.3	-15.5	51.9	52.2	0.26	0.00	14.84
6,141.0	1.00	267.10	6,139.3	-15.9	50.4	50.6	0.37	0.00	21.05
6,236.0	1.00	262.40	6,234.3	-16.0	48.7	49.0	0.09	0.00	-4.95
6,331.0	0.70	242.00	6,329.3	-16.4	47.4	47.7	0.44	-0.32	-21.47
6,426.0	1.10	262.20	6,424.3	-16.8	46.0	46.3	0.53	0.42	21.26
6,521.0	1.00	223.50	6,519.3	-17.5	44.5	44.8	0.74	-0.11	-40.74
6,616.0	0.70	209.80	6,614.2	-18.6	43.6	44.0	0.38	-0.32	-14.42
6,711.0	0.90	225.40	6,709.2	-19.6	42.8	43.2	0.31	0.21	16.42
6,806.0	1.10	253.20	6,804.2	-20.4	41.4	41.8	0.55	0.21	29.26
6,901.0	0.80	279.20	6,899.2	-20.6	39.9	40.3	0.55	-0.32	27.37
6,996.0	0.60	301.40	6,994.2	-20.2	38.8	39.2	0.35	-0.21	23.37
7,091.0	0.40	316.70	7,089.2	-19.7	38.1	38.5	0.25	-0.21	16.11
7,186.0	0.60	248.30	7,184.2	-19.7	37.4	37.8	0.62	0.21	-72.00
7,295.0	0.50	208.90	7,293.2	-20.3	36.7	37.1	0.35	-0.09	-36.15
7,388.0	0.10	278.50	7,386.2	-20.6	36.4	36.8	0.51	-0.43	74.84
7,481.0	0.30	271.90	7,479.2	-20.6	36.1	36.5	0.22	0.22	-7.10
7,573.0	0.20	319.00	7,571.2	-20.5	35.7	36.1	0.24	-0.11	51.20
7,666.0	0.40	250.90	7,664.2	-20.5	35.3	35.7	0.40	0.22	-73.23
7,758.0	0.40	214.20	7,756.2	-20.8	34.8	35.2	0.27	0.00	-39.89
7,805.0	0.70	247.20	7,803.2	-21.1	34.5	34.9	0.90	0.64	70.21
7,869.0	1.80	95.90	7,867.2	-21.3	35.1	35.5	3.81	1.72	-236.41
7,900.0	5.30	81.00	7,898.1	-21.2	37.0	37.4	11.58	11.29	-48.06
7,931.0	8.40	76.20	7,928.9	-20.4	40.6	41.0	10.16	10.00	-15.48
7,963.0	11.60	74.40	7,960.4	-19.0	46.0	46.4	10.05	10.00	-5.63
7,993.0	15.00	78.50	7,989.6	-17.4	52.7	53.0	11.75	11.33	13.67
8,024.0	18.60	81.50	8,019.3	-15.9	61.5	61.8	11.94	11.61	9.68
8,055.0	21.80	82.50	8,048.3	-14.4	72.1	72.4	10.38	10.32	3.23
8,086.0	25.30	83.80	8,076.8	-12.9	84.4	84.7	11.41	11.29	4.19



Wellplanning

Survey Report

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County, NM(NAD83)	TVD Reference:	WELL @ 3350.5usft (Original Well Elev)
Site:	Focus "BDB" Federal	MD Reference:	WELL @ 3350.5usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User 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)	
8,116.0	28.50	85.50	8,103.5	-11.7	98.0	98.2	10.97	10.67	5.67	
8,147.0	31.70	87.50	8,130.3	-10.7	113.5	113.6	10.82	10.32	6.45	
8,178.0	35.40	88.90	8,156.2	-10.2	130.6	130.8	12.19	11.94	4.52	
8,209.0	39.10	89.60	8,180.8	-10.0	149.3	149.5	12.01	11.94	2.26	
8,240.0	42.20	89.40	8,204.3	-9.8	169.5	169.7	10.01	10.00	-0.65	
8,270.0	46.30	89.60	8,225.8	-9.6	190.5	190.6	13.67	13.67	0.67	
8,301.0	49.90	89.20	8,246.5	-9.4	213.5	213.7	11.65	11.61	-1.29	
8,332.0	53.60	88.90	8,265.7	-9.0	237.9	238.0	11.96	11.94	-0.97	
8,363.0	57.90	89.00	8,283.2	-8.5	263.5	263.6	13.87	13.87	0.32	
8,394.0	62.00	89.20	8,298.7	-8.1	290.3	290.4	13.24	13.23	0.65	
8,425.0	66.00	89.90	8,312.3	-7.8	318.2	318.3	13.06	12.90	2.26	
8,455.0	70.80	90.30	8,323.3	-7.9	346.1	346.1	16.05	16.00	1.33	
8,486.0	74.60	90.80	8,332.5	-8.2	375.6	375.7	12.35	12.26	1.61	
8,517.0	78.50	91.10	8,339.7	-8.7	405.8	405.9	12.62	12.58	0.97	
8,546.0	81.30	92.00	8,344.8	-9.5	434.3	434.4	10.13	9.66	3.10	
8,577.0	83.30	92.20	8,349.0	-10.6	465.0	465.1	6.48	6.45	0.65	
8,608.0	87.70	92.20	8,351.4	-11.8	495.9	496.0	14.19	14.19	0.00	
8,639.0	90.50	91.90	8,351.9	-12.9	526.9	527.0	9.08	9.03	-0.97	
8,733.0	91.10	91.90	8,350.6	-16.0	620.8	621.0	0.64	0.64	0.00	
8,825.0	89.80	92.70	8,349.9	-19.7	712.7	713.0	1.66	-1.41	0.87	
8,918.0	89.50	91.10	8,350.4	-22.8	805.7	806.0	1.75	-0.32	-1.72	
9,013.0	88.10	91.10	8,352.4	-24.6	900.6	900.9	1.47	-1.47	0.00	
9,109.0	88.40	91.70	8,355.3	-26.9	996.6	996.9	0.70	0.31	0.63	
9,201.0	89.30	93.30	8,357.2	-31.0	1,088.4	1,088.8	2.00	0.98	1.74	
9,295.0	88.90	92.00	8,358.7	-35.3	1,182.3	1,182.8	1.45	-0.43	-1.38	
9,390.0	88.10	90.40	8,361.2	-37.3	1,277.3	1,277.7	1.88	-0.84	-1.68	
9,485.0	89.40	90.40	8,363.2	-37.9	1,372.2	1,372.7	1.37	1.37	0.00	
9,580.0	90.40	91.70	8,363.4	-39.7	1,467.2	1,467.7	1.73	1.05	1.37	
9,675.0	89.30	92.00	8,363.6	-42.8	1,562.2	1,562.7	1.20	-1.16	0.32	
9,770.0	90.00	92.40	8,364.2	-46.4	1,657.1	1,657.7	0.85	0.74	0.42	
9,865.0	88.90	93.40	8,365.1	-51.2	1,752.0	1,752.6	1.56	-1.16	1.05	
9,958.0	89.40	91.90	8,366.5	-55.5	1,844.9	1,845.6	1.70	0.54	-1.61	
10,052.0	89.70	89.40	8,367.3	-56.6	1,938.8	1,939.6	2.68	0.32	-2.66	
10,147.0	88.90	89.90	8,368.4	-56.0	2,033.8	2,034.5	0.99	-0.84	0.53	
10,242.0	90.00	89.20	8,369.3	-55.2	2,128.8	2,129.5	1.37	1.16	-0.74	
10,336.0	90.10	89.00	8,369.2	-53.8	2,222.8	2,223.4	0.24	0.11	-0.21	
10,429.0	89.60	89.60	8,369.5	-52.6	2,315.8	2,316.4	0.84	-0.54	0.65	
10,524.0	89.20	90.40	8,370.5	-52.6	2,410.8	2,411.4	0.94	-0.42	0.84	
10,617.0	89.30	91.00	8,371.7	-53.8	2,503.8	2,504.4	0.65	0.11	0.65	
10,712.0	89.40	91.00	8,372.8	-55.4	2,598.8	2,599.3	0.11	0.11	0.00	
10,806.0	88.50	91.50	8,374.5	-57.5	2,692.7	2,693.3	1.10	-0.96	0.53	
10,900.0	88.60	91.50	8,376.9	-59.9	2,786.7	2,787.3	0.11	0.11	0.00	
10,994.0	88.80	91.70	8,379.0	-62.6	2,880.6	2,881.3	0.30	0.21	0.21	



Wellplanning

Survey Report

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Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User 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)	
11,088.0	88.60	91.30	8,381.1	-65.0	2,974.5	2,975.2	0.48	-0.21	-0.43	
11,183.0	89.00	91.70	8,383.1	-67.5	3,069.5	3,070.2	0.60	0.42	0.42	
11,278.0	88.20	90.40	8,385.5	-69.2	3,164.4	3,165.2	1.61	-0.84	-1.37	
11,373.0	88.10	90.40	8,388.5	-69.9	3,259.4	3,260.1	0.11	-0.11	0.00	
11,469.0	87.70	90.40	8,392.0	-70.6	3,355.3	3,356.1	0.42	-0.42	0.00	
11,564.0	88.60	91.00	8,395.1	-71.7	3,450.3	3,451.0	1.14	0.95	0.63	
11,658.0	89.80	91.50	8,396.4	-73.8	3,544.2	3,545.0	1.38	1.28	0.53	
11,746.0	89.40	92.20	8,397.0	-76.6	3,632.2	3,633.0	0.92	-0.45	0.80	
11,841.0	89.90	91.50	8,397.6	-79.7	3,727.1	3,728.0	0.91	0.53	-0.74	
11,935.0	89.50	91.30	8,398.1	-82.0	3,821.1	3,822.0	0.48	-0.43	-0.21	
12,030.0	89.40	90.80	8,399.0	-83.7	3,916.1	3,917.0	0.54	-0.11	-0.53	
12,123.0	88.60	89.60	8,400.6	-84.1	4,009.1	4,009.9	1.55	-0.86	-1.29	
12,218.0	90.00	89.70	8,401.8	-83.5	4,104.1	4,104.9	1.48	1.47	0.11	
12,313.0	90.50	90.10	8,401.4	-83.3	4,199.0	4,199.9	0.67	0.53	0.42	
12,408.0	90.30	90.10	8,400.7	-83.5	4,294.0	4,294.9	0.21	-0.21	0.00	
12,503.0	90.00	89.90	8,400.5	-83.5	4,389.0	4,389.8	0.38	-0.32	-0.21	
12,598.0	89.50	89.70	8,400.9	-83.2	4,484.0	4,484.8	0.57	-0.53	-0.21	
12,693.0	88.90	89.40	8,402.2	-82.4	4,579.0	4,579.8	0.71	-0.63	-0.32	
12,771.0	88.90	89.40	8,403.7	-81.6	4,657.0	4,657.7	0.00	0.00	0.00	
PBHL(FBF#1)										

Checked By: _____	Approved By: _____	Date: _____
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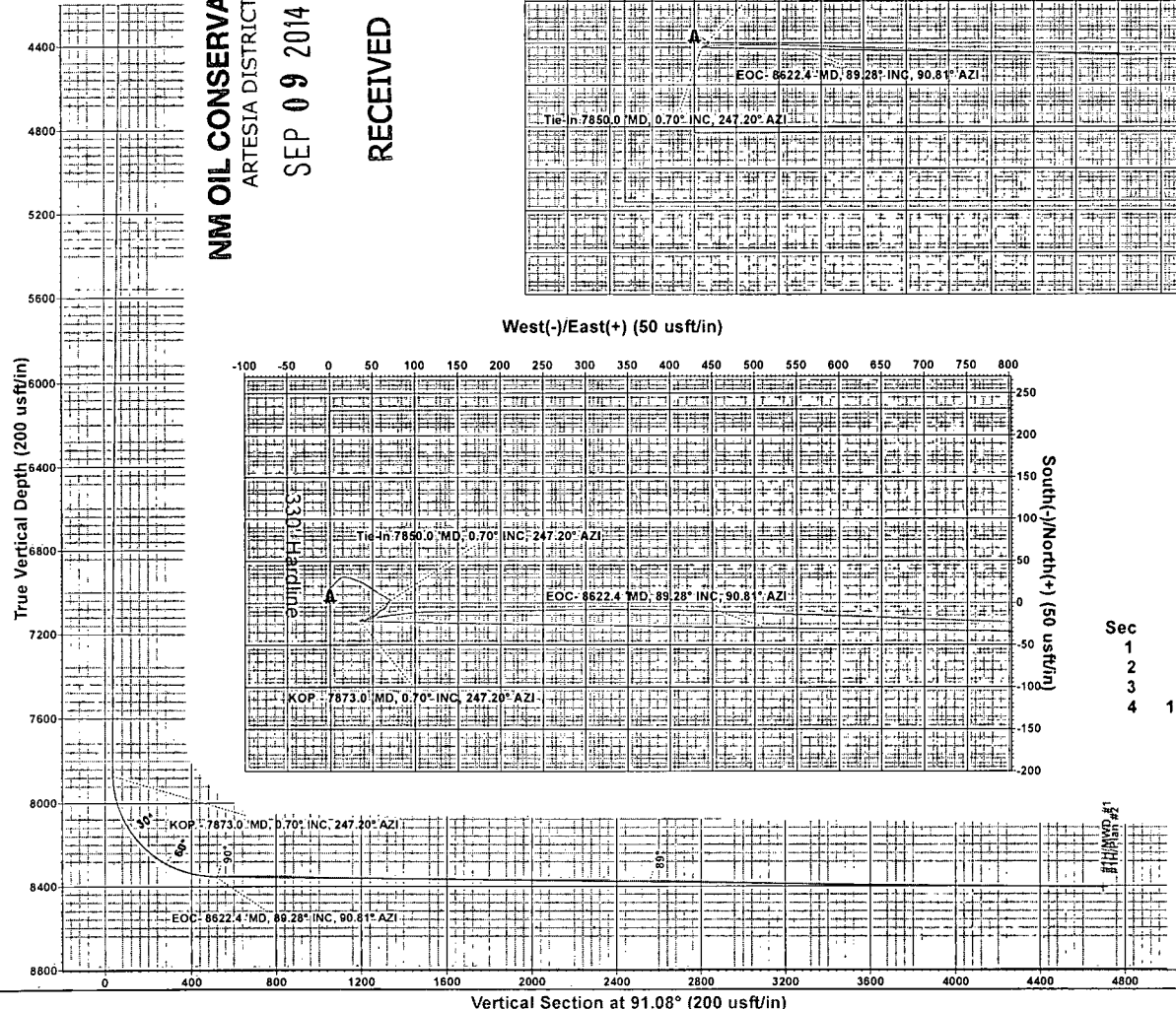


Project: Eddy County, NM(NAD83)
 Site: Focus "BDB" Federal
 Well: #1H
 Wellbore: OH
 Plan: Plan #2 (#1H/OH)

NM OIL CONSERVATION
 ARTESIA DISTRICT

SEP 09 2014

RECEIVED



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

South(-)/North(+) (200 usft/in)

West(-)/East(+) (50 usft/in)

South(-)/North(+) (50 usft/in)

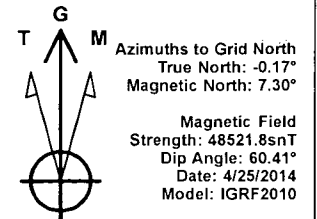
#1H

Ground Elevation:: 3332.0
 RKB Elevation: WELL @ 3350.5usft (Original Well Elev)
 Rig Name: Original Well Elev

Longitude	Northing	Easting	Latitude
590390.87	638191.62	32° 37' 21.507 N	104° 1' 7.482 W

Section Details

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
1	7850.0	1.09	101.16	7848.2	-21.3	34.7	0.00	0.00	35.0
2	7873.0	1.09	101.16	7871.2	-21.4	35.1	0.00	0.00	35.5
3	8630.5	89.28	90.81	8354.0	-29.9	520.8	11.64	-10.36	521.3
4	12806.2	89.28	90.81	8406.5	-88.9	4695.7	0.00	0.00	4696.5 PBHL(FBF#1)



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



Job Number: SVMO-140680

Company: Yates Petroleum Corporation

Lease/Well: Focus BDB Fed 1-H

Location: Eddy County, NM

Rig Name: McVay #10

RKB: 18.5'

G.L. or M.S.L.: GL

State/Country: New Mexico/USA

Declination: 7.30°

Grid: East To Grid North

File name: S:\2014SU-1\YATES\MO\FOCUSB-1\1H.SVY

Date/Time: 28-May-14 / 08:56

Curve Name: Surface -3600' M.D. (Rate Gyro)

NM OIL CONSERVATION
 ARTESIA DISTRICT
 SEP 09 2014
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MS SURVEY

WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method

Vertical Section Plane 91.09

Vertical Section Referenced to Wellhead

Rectangular Coordinates Referenced to Wellhead

We hereby certify that our survey data from
 Surface MD to 3,600 MD is, to the best of
 our knowledge a true and accurate account of
 the well bore.

James Eally
 MS Energy Services

5/28/14
 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	.34	239.57	100.00	-.15	-.26	-.25	.30	239.57	.34
200.00	.50	303.54	200.00	-.06	-.88	-.87	.88	266.11	.47
300.00	.81	326.34	299.99	.77	-1.63	-1.65	1.80	295.27	.40
400.00	.83	326.70	399.98	1.96	-2.42	-2.46	3.12	309.05	.02
500.00	.93	336.57	499.97	3.31	-3.14	-3.20	4.57	316.54	.18
600.00	.98	341.98	599.95	4.87	-3.73	-3.82	6.13	322.58	.10
700.00	.93	338.88	699.94	6.44	-4.28	-4.41	7.74	326.37	.07
800.00	1.15	2.92	799.92	8.20	-4.53	-4.68	9.37	331.11	.48
900.00	1.28	6.79	899.90	10.31	-4.34	-4.54	11.19	337.16	.15

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	1.37	17.02	999.88	12.56	-3.86	-4.10	13.14	342.92	.25
1100.00	1.30	36.37	1099.85	14.62	-2.84	-3.12	14.89	349.01	.45
1200.00	1.31	44.66	1199.82	16.35	-1.36	-1.67	16.40	355.24	.19
1300.00	1.34	43.70	1299.80	18.01	.25	-.09	18.01	.79	.04
1400.00	1.33	44.61	1399.77	19.68	1.87	1.50	19.77	5.43	.02
1500.00	1.34	42.99	1499.74	21.36	3.48	3.08	21.64	9.27	.04
1600.00	1.25	46.03	1599.72	22.97	5.07	4.63	23.52	12.44	.11
1700.00	1.25	48.23	1699.69	24.46	6.67	6.20	25.35	15.25	.05
1800.00	1.21	41.17	1799.67	25.98	8.17	7.68	27.23	17.47	.16
1900.00	1.07	46.13	1899.65	27.42	9.54	9.02	29.03	19.19	.17
2000.00	1.02	40.26	1999.63	28.74	10.79	10.24	30.70	20.58	.12
2100.00	1.37	65.04	2099.61	29.93	12.45	11.88	32.41	22.59	.62
2200.00	1.43	77.20	2199.58	30.71	14.75	14.16	34.07	25.66	.30
2300.00	1.73	96.54	2299.55	30.81	17.47	16.88	35.42	29.55	.61
2400.00	1.91	100.79	2399.49	30.33	20.60	20.02	36.67	34.19	.22
2500.00	2.10	104.65	2499.43	29.55	24.01	23.45	38.08	39.09	.23
2600.00	2.13	110.33	2599.37	28.45	27.53	26.98	39.58	44.06	.21
2700.00	2.03	110.69	2699.30	27.17	30.93	30.40	41.17	48.70	.10
2800.00	2.07	112.05	2799.24	25.87	34.26	33.76	42.93	52.94	.06
2900.00	2.07	115.68	2899.17	24.41	37.56	37.09	44.79	56.98	.13
3000.00	2.03	120.09	2999.11	22.74	40.72	40.28	46.64	60.82	.16
3100.00	1.92	123.82	3099.05	20.92	43.64	43.24	48.40	64.39	.17
3200.00	2.07	124.85	3198.99	18.95	46.52	46.15	50.23	67.83	.15
3300.00	2.01	125.51	3298.92	16.90	49.43	49.10	52.24	71.12	.06
3400.00	2.07	125.42	3398.86	14.84	52.33	52.04	54.39	74.17	.06
3500.00	2.22	123.36	3498.79	12.73	55.42	55.16	56.86	77.07	.17
Last Survey Depth Recorded									
3600.00	2.24	121.76	3598.71	10.63	58.70	58.48	59.65	79.73	.07



NM OIL CONSERVATION
ARTESIA DISTRICT

SEP 09 2014

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30 015 39421

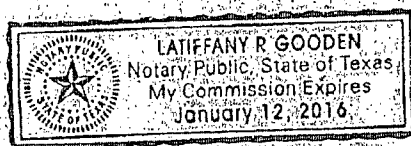
State of New Mexico
County of Eddy

I, Michael K. Baber, certify that I am employed by Terra Directional Services LLC; that I did on the day(s) of 05/17/14 through 05/31/14 conduct or supervise the taking of a MWD survey from a depth of 3673 feet to a depth 12771 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Terra Directional Services LLC; that I am authorized and qualified to make this report; that this survey was conducted at the request of Yates Petroleum for the Focus BDB Federal #1H Well API 30-015-39421 in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Terra Directional Services LLC.

Michael K. Baber
MWD Operations Manager

State of Texas
County of Brewster

Before me, a notary public, on this day personally appeared Michael K. Baber, known to me to be the person whose name is subscribed to the foregoing document and, being by me first duly sworn, declared that the statements therein contained are true and correct.


Notary Public's Signature



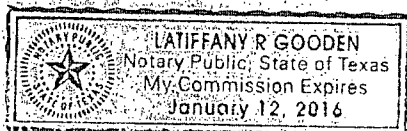
Customer Name: Yates Petroleum Corp
 Well Name: Focus BDB Federal #
 API Number: 30-015-39421
 County / Parish: Eddy Co. New Mexico

M.W.D. Operator: Bob Gary
 Directional Driller: Jack Chance
 Total Magnetic Correction: 7.3
 Job #: NM-436

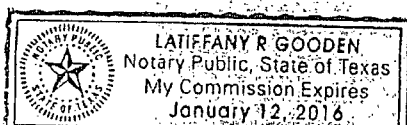
Vertical Section: 91.09

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	3600.00	2.24	121.76	3598.71	58.49	10.63	58.70	0.00	0.00	0.00
1	3673.00	1.50	116.80	3671.67	60.58	9.45	60.77	61.50	81.16	1.04
2	3768.00	1.40	119.10	3766.64	62.72	8.32	62.89	63.44	82.46	0.12
3	3863.00	1.30	125.20	3861.61	64.64	7.14	64.78	65.18	83.71	0.18
4	3958.00	1.40	128.40	3956.59	66.45	5.80	66.57	66.83	85.02	0.13
5	4053.00	0.90	98.70	4051.57	68.11	4.96	68.22	68.40	85.84	0.80
6	4147.00	0.80	99.60	4145.56	69.50	4.74	69.60	69.76	86.10	0.11
7	4242.00	0.60	149.90	4240.55	70.41	4.20	70.50	70.63	86.59	0.65
8	4337.00	0.80	215.80	4335.55	70.29	3.23	70.36	70.44	87.37	0.82
9	4432.00	1.30	223.20	4430.53	69.19	1.91	69.24	69.26	88.42	0.54
10	4527.00	1.10	205.40	4525.51	68.09	0.30	68.11	68.11	89.75	0.44
11	4622.00	1.30	205.90	4620.49	67.26	-1.49	67.25	67.26	91.27	0.21
12	4717.00	0.80	211.60	4715.47	66.47	-3.03	66.43	66.50	92.61	0.54
13	4812.00	1.20	217.50	4810.46	65.55	-4.38	65.48	65.62	93.83	0.43
14	4908.00	0.60	225.40	4906.45	64.60	-5.53	64.51	64.74	94.90	0.64
15	5002.00	1.30	221.80	5000.43	63.56	-6.67	63.44	63.79	96.00	0.75
16	5097.00	1.10	236.20	5095.41	62.11	-7.98	61.97	62.48	97.34	0.38
17	5192.00	0.70	270.80	5190.40	60.78	-8.48	60.63	61.22	97.97	0.69
18	5287.00	1.20	258.00	5285.39	59.23	-8.68	59.08	59.71	98.36	0.57
19	5382.00	0.50	193.50	5380.38	58.17	-9.29	58.01	58.75	99.10	1.14
20	5477.00	0.70	210.90	5475.37	57.80	-10.19	57.61	58.51	100.03	0.28
21	5572.00	1.10	223.00	5570.36	56.90	-11.36	56.69	57.82	101.33	0.46
22	5667.00	0.40	228.60	5665.35	56.04	-12.24	55.82	57.15	102.37	0.74
23	5762.00	0.50	220.30	5760.35	55.54	-12.78	55.31	56.76	103.01	0.13
24	5857.00	0.90	222.80	5855.34	54.78	-13.64	54.53	56.21	104.05	0.42
25	5951.00	1.00	233.00	5949.33	53.64	-14.68	53.37	55.35	105.38	0.21
26	6046.00	1.00	247.10	6044.31	52.23	-15.50	51.95	54.21	106.61	0.26
27	6141.00	1.00	267.10	6139.30	50.65	-15.86	50.36	52.80	107.49	0.37
28	6236.00	1.00	262.40	6234.29	49.00	-16.02	48.71	51.27	108.20	0.09
29	6331.00	0.70	242.00	6329.28	47.68	-16.40	47.37	50.13	109.09	0.44
30	6426.00	1.10	262.20	6424.26	46.27	-16.79	45.96	48.93	110.07	0.53
31	6521.00	1.00	223.50	6519.25	44.81	-17.52	44.48	47.81	111.50	0.74
32	6616.00	0.70	209.80	6614.24	43.97	-18.62	43.62	47.43	113.12	0.38
33	6711.00	0.90	225.40	6709.23	43.17	-19.65	42.80	47.10	114.66	0.31
34	6806.00	1.10	253.20	6804.22	41.78	-20.44	41.40	46.17	116.28	0.55
35	6901.00	0.80	279.20	6899.20	40.26	-20.60	39.87	44.88	117.32	0.55
36	6996.00	0.60	301.40	6994.20	39.17	-20.23	38.79	43.75	117.54	0.35
37	7091.00	0.40	316.70	7089.19	38.51	-19.73	38.14	42.94	117.35	0.25
38	7186.00	0.60	248.30	7184.19	37.82	-19.67	37.45	42.30	117.71	0.62
39	7295.00	0.50	208.90	7293.18	37.07	-20.30	36.69	41.93	118.96	0.35
40	7388.00	0.10	278.50	7386.18	36.80	-20.64	36.41	41.86	119.55	0.51
41	7481.00	0.30	271.90	7479.18	36.48	-20.62	36.09	41.57	119.75	0.22
42	7573.00	0.20	319.00	7571.18	36.13	-20.50	35.74	41.20	119.83	0.24
43	7666.00	0.40	250.90	7664.18	35.71	-20.48	35.33	40.84	120.10	0.40
44	7758.00	0.40	214.20	7756.18	35.24	-20.85	34.85	40.61	120.89	0.27
45	7805.00	0.70	247.20	7803.18	34.89	-21.10	34.49	40.43	121.45	0.90



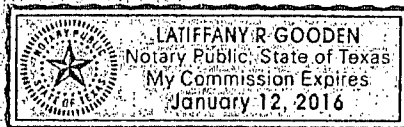
46	7869.00	1.80	95.90	7867.17	35.53	-21.35	35.13	41.11	121.29	3.81
47	7900.00	5.30	81.00	7898.10	37.43	-21.18	37.03	42.66	119.77	11.58
48	7931.00	8.40	76.20	7928.88	41.02	-20.41	40.64	45.48	116.67	10.16
49	7963.00	11.60	74.40	7960.39	46.37	-18.99	46.01	49.78	112.43	10.05
50	7993.00	15.00	78.50	7989.58	53.05	-17.40	52.72	55.52	108.27	11.75
51	8024.00	18.60	81.50	8019.25	61.84	-15.87	61.55	63.56	104.46	11.94
52	8055.00	21.80	82.50	8048.34	72.41	-14.39	72.15	73.57	101.28	10.38
53	8086.00	25.30	83.80	8076.76	84.67	-12.92	84.44	85.43	98.70	11.41
54	8116.00	28.50	85.50	8103.51	98.16	-11.67	97.96	98.65	96.79	10.97
55	8147.00	31.70	87.50	8130.32	113.65	-10.73	113.47	113.98	95.40	10.82
56	8178.00	35.40	88.90	8156.16	130.76	-10.21	130.59	130.99	94.47	12.19
57	8209.00	39.10	89.60	8180.83	149.51	-9.97	149.35	149.68	93.82	12.01
58	8240.00	42.20	89.40	8204.34	169.70	-9.79	169.54	169.82	93.30	10.01
59	8270.00	46.30	89.60	8225.83	190.62	-9.61	190.47	190.71	92.89	13.67
60	8301.00	49.90	89.20	8246.53	213.68	-9.36	213.54	213.74	92.51	11.65
61	8332.00	53.60	88.90	8265.72	238.00	-8.96	237.88	238.04	92.16	11.96
62	8363.00	57.90	89.00	8283.16	263.60	-8.49	263.49	263.63	91.85	13.87
63	8394.00	62.00	89.20	8298.68	290.41	-8.07	290.31	290.43	91.59	13.24
64	8425.00	66.00	89.90	8312.27	318.26	-7.85	318.17	318.27	91.41	13.06
65	8455.00	70.80	90.30	8323.31	346.14	-7.90	346.05	346.14	91.31	16.05
66	8486.00	74.60	90.80	8332.52	375.73	-8.19	375.65	375.73	91.25	12.35
67	8517.00	78.50	91.10	8339.73	405.88	-8.69	405.79	405.88	91.23	12.62
68	8546.00	81.30	92.00	8344.82	434.42	-9.46	434.32	434.43	91.25	10.13
69	8577.00	83.30	92.20	8348.97	465.14	-10.59	465.02	465.14	91.30	6.48
70	8608.00	87.70	92.20	8351.40	496.03	-11.77	495.89	496.03	91.36	14.19
71	8639.00	90.50	91.90	8351.89	527.02	-12.88	526.87	527.03	91.40	9.08
72	8733.00	91.10	92.20	8350.58	620.99	-16.24	620.80	621.01	91.50	0.71
73	8825.00	89.80	92.70	8349.86	712.96	-20.18	712.71	712.99	91.62	1.51
74	8918.00	89.50	91.10	8350.42	805.95	-23.26	805.65	805.99	91.65	1.75
75	9013.00	88.10	91.10	8352.41	900.93	-25.08	900.61	900.96	91.60	1.47
76	9109.00	88.40	91.70	8355.35	996.88	-27.43	996.54	996.92	91.58	0.70
77	9201.00	89.30	93.30	8357.19	1088.83	-31.44	1088.43	1088.88	91.65	2.00
78	9295.00	88.90	92.00	8358.67	1182.78	-35.79	1182.31	1182.85	91.73	1.45
79	9390.00	88.10	90.40	8361.16	1277.74	-37.77	1277.26	1277.81	91.69	1.88
80	9485.00	89.40	90.40	8363.23	1372.71	-38.44	1372.23	1372.77	91.60	1.37
81	9580.00	90.40	91.70	8363.39	1467.71	-40.18	1467.21	1467.76	91.57	1.73
82	9675.00	89.30	92.00	8363.64	1562.70	-43.25	1562.16	1562.76	91.59	1.20
83	9770.00	90.00	92.40	8364.22	1657.68	-46.89	1657.09	1657.75	91.62	0.85
84	9865.00	88.90	93.40	8365.13	1752.62	-51.70	1751.96	1752.72	91.69	1.56
85	9958.00	89.40	91.90	8366.51	1845.58	-56.00	1844.84	1845.69	91.74	1.70
86	10052.00	89.70	89.40	8367.25	1939.56	-57.06	1938.83	1939.67	91.69	2.68
87	10147.00	88.90	89.90	8368.41	2034.52	-56.48	2033.82	2034.60	91.59	0.99
88	10242.00	90.00	89.20	8369.33	2129.48	-55.74	2128.81	2129.54	91.50	1.37
89	10336.00	90.10	89.00	8369.24	2223.43	-54.26	2222.80	2223.46	91.40	0.24
90	10429.00	89.60	89.60	8369.49	2316.38	-53.12	2315.79	2316.40	91.31	0.84
91	10524.00	89.20	90.40	8370.48	2411.36	-53.12	2410.78	2411.37	91.26	0.94
92	10617.00	89.30	91.00	8371.70	2504.35	-54.26	2503.77	2504.36	91.24	0.65
93	10712.00	89.40	91.00	8372.78	2599.34	-55.92	2598.75	2599.35	91.23	0.11
94	10806.00	88.50	91.50	8374.50	2693.32	-57.97	2692.71	2693.33	91.23	1.10
95	10900.00	88.60	91.50	8376.88	2787.29	-60.43	2786.65	2787.30	91.24	0.11
96	10994.00	88.80	91.70	8379.01	2881.26	-63.05	2880.58	2881.27	91.25	0.30
97	11088.00	88.60	91.30	8381.14	2975.24	-65.51	2974.53	2975.25	91.26	0.48
98	11183.00	89.00	91.70	8383.13	3070.21	-68.00	3069.47	3070.23	91.27	0.60
99	11278.00	88.20	90.40	8385.45	3165.18	-69.74	3164.43	3165.20	91.26	1.61
100	11373.00	88.10	90.40	8388.52	3260.12	-70.40	3259.38	3260.14	91.24	0.11
101	11469.00	87.70	90.40	8392.04	3356.05	-71.07	3355.31	3356.06	91.21	0.42
102	11564.00	88.60	91.00	8395.11	3451.00	-72.23	3450.25	3451.01	91.20	1.14
103	11658.00	89.80	91.50	8396.42	3544.99	-74.28	3544.22	3544.99	91.20	1.38
104	11746.00	89.40	92.20	8397.03	3632.98	-77.12	3632.17	3632.99	91.22	0.92
105	11841.00	89.90	91.50	8397.61	3727.97	-80.19	3727.12	3727.98	91.23	0.91



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106	11935.00	89.50	91.30	8398.10	3821.96	-82.49	3821.09	3821.98	91.24	0.48
107	12030.00	89.40	90.80	8399.02	3916.96	-84.23	3916.07	3916.97	91.23	0.54
108	12123.00	88.60	89.60	8400.64	4009.93	-84.55	4009.05	4009.94	91.21	1.55
109	12218.00	90.00	89.70	8401.80	4104.89	-83.97	4104.04	4104.90	91.17	1.48
110	12313.00	90.50	90.10	8401.39	4199.87	-83.81	4199.04	4199.87	91.14	0.67
111	12408.00	90.30	90.10	8400.72	4294.85	-83.97	4294.03	4294.85	91.12	0.21
112	12503.00	90.00	89.90	8400.47	4389.84	-83.97	4389.03	4389.84	91.10	0.38
113	12598.00	89.50	89.70	8400.89	4484.81	-83.64	4484.03	4484.81	91.07	0.57
114	12693.00	88.90	89.40	8402.21	4579.77	-82.89	4579.02	4579.77	91.04	0.71
PTB	12771.00	88.90	89.40	8403.71	4657.72	-82.08	4657.00	4657.72	91.01	0.00



A handwritten signature in black ink, appearing to be "L. Gooden", written over the notary seal.

A handwritten signature in black ink, appearing to be "J. Smith", written in the upper right area of the page.