



30-015-26907

Yates Petroleum Corp.

Eddy County (NAD 83)
Palo Verde "AJV" Federal Com
#1H
OH

Design: OH

PathfinderX & Y Report

28 May, 2012

PATHFINDER[®]
A Schlumberger Company



Pathfinder
PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County (NAD 83)	TVD Reference:	KB = 10 @ 3643 0usft (Felderhoff 25)
Site:	Palo Verde "AJV" Federal Com	MD Reference:	KB = 10 @ 3643 0usft (Felderhoff 25)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 1 Single User Db

Project:	Eddy County (NAD 83)	System Datum:	Mean Sea Level
Map System:	US State Plane 1983		
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:	Palo Verde "AJV" Federal Com				
Site Position		Northing	565,332 928 usft	Latitude	32 554
From	Map	Easting	475,092 810 usft	Longitude	-104 548
Position Uncertainty	0 0 usft	Slot Radius:	13-3/16 "	Grid Convergence	-0 12 °

Well:	#1H					
Well Position	+N/-S	0 0 usft	Northing:	565,332 928 usft	Latitude	32 554
	+E/-W	0 0 usft	Easting:	475,092 810 usft	Longitude:	-104 548
Position Uncertainty	0 0 usft	Wellhead Elevation	usft	Ground Level	3,633 0 usft	

Wellbore:	OH				
Magnetics:	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (mT)
	IGRF200510	4/26/2012	7 94	60 33	48,658

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	91 42	



Pathfinder
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Company:	Yates Petroleum Corp	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County (NAD 83)	TVD Reference:	KB = 10 @ 3643' 0usft (Felderhoff 25)
Site:	Palo Verde ADV Federal Com	MD Reference:	KB = 10 @ 3643' 0usft (Felderhoff 25)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 1 Single User Db

Survey Program		Date: 5/28/2012		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100 0	2,100 0	Gyro #1 (OH)	NS-GYRO-MS	North sensing gyrocompassing m/s
2,197 0	6,880 0	MWD #1 (OH)	MWD	MWD - Standard

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Eastings (usft)
0 0	0 00	0 00	0 0	-3,643 0	0 0	0 0	0 0	0 00	565,332 93	475,092 81
100 0	0 16	212 30	100 0	-3,543 0	-0 1	-0 1	-0 1	0 16	565,332 81	475,092 74
200 0	0 38	240 25	200 0	-3,443 0	-0 4	-0 4	-0 4	0 25	565,332 53	475,092 37
300 0	0 75	274 08	300 0	-3,343 0	-0 5	-1 4	-1 4	0 48	565,332 41	475,091 43
400 0	0 94	272 11	400 0	-3,243 0	-0 4	-2 9	-2 8	0 19	565,332 49	475,089 96
500 0	0 81	270 54	500 0	-3,143 0	-0 4	-4 4	-4 4	0 13	565,332 52	475,088 43
600 0	0 88	281 26	600 0	-3,043 0	-0 2	-5 8	-5 8	0 17	565,332 68	475,086 97
700 0	1 15	251 38	699 9	-2,943 1	-0 4	-7 5	-7 5	0 58	565,332 51	475,085 27
800 0	1 44	240 36	799 9	-2,843 1	-1 4	-9 6	-9 5	0 38	565,331 57	475,083 23
900 0	1 42	240 95	899 9	-2,743 1	-2 6	-11 8	-11 7	0 02	565,330 34	475,081 05
1,000 0	0 99	264 25	999 9	-2,643 1	-3 3	-13 7	-13 6	0 64	565,329 66	475,079 11
1,100 0	0 88	277 35	1,099 9	-2,543 1	-3 3	-15 3	-15 2	0 24	565,329 67	475,077 49
1,200 0	0 96	277 83	1,199 8	-2,443 2	-3 0	-16 9	-16 8	0 08	565,329 88	475,075 90
1,300 0	0 70	283 68	1,299 8	-2,343 2	-2 8	-18 3	-18 3	0 27	565,330 14	475,074 47
1,400 0	0 77	278 91	1,399 8	-2,243 2	-2 5	-19 6	-19 5	0 09	565,330 39	475,073 21
1,500 0	0 74	287 18	1,499 8	-2,143 2	-2 2	-20 9	-20 8	0 11	565,330 68	475,071 93
1,600 0	0 88	299 58	1,599 8	-2,043 2	-1 7	-22 2	-22 1	0 22	565,331 25	475,070 65
1,700 0	1 03	302 36	1,699 8	-1,943 2	-0 8	-23 6	-23 6	0 16	565,332 11	475,069 22
1,800 0	0 97	298 92	1,799 8	-1,843 2	0 1	-25 1	-25 1	0 08	565,333 00	475,067 72
1,900 0	1 04	306 04	1,899 8	-1,743 2	1 0	-26 6	-26 6	0 14	565,333 95	475,066 25
2,000 0	1 01	316 20	1,999 7	-1,643 3	2 2	-27 9	-28 0	0 18	565,335 12	475,064 90



Pathfinder
PathfinderX & Y Report



Company: Yates Petroleum Corp.
Project: Eddy County (NAD 83)
Site: Palo Verde "A" Federal Com
Well: #1H
Wellbore: OH
Design: OH

Local Co-ordinate Reference
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #1H
KB = 10 @ 3643.0usft (Felderhoff 25)
KB = 10 @ 3643.0usft (Felderhoff 25)
Grid:
Minimum Curvature
EDM 5000 1, Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D Leg (1/100usft)	Northing (usft)	Easting (usft)	
2,100.0	1.12	308.97	2,099.7	-1,543.3	3.4	-29.3	-29.4	0.17	565,336.37	475,063.53	
2,197.0	10.73	92.96	2,196.2	-1,446.8	3.6	-21.0	-21.0	12.01	565,336.50	475,071.84	
KOP - 2197.0 MD, 2196.2 TVD, 3.6°N, -21.0°E											
2,224.0	16.80	103.77	2,222.4	-1,420.6	2.5	-14.7	-14.7	24.32	565,335.44	475,078.15	
2,256.0	20.14	113.88	2,252.8	-1,390.2	-0.8	-5.1	-5.1	14.43	565,332.10	475,087.68	
2,287.0	23.74	112.91	2,281.5	-1,361.5	-5.4	5.5	5.6	11.67	565,327.51	475,098.32	
2,319.0	28.49	108.17	2,310.3	-1,332.7	-10.3	18.7	18.9	16.20	565,322.62	475,111.51	
2,351.0	33.85	104.83	2,337.6	-1,305.4	-15.0	34.6	34.9	17.59	565,317.96	475,127.39	
2,379.0	38.08	103.25	2,360.3	-1,282.7	-18.9	50.5	51.0	15.47	565,313.98	475,143.34	
2,410.0	40.98	102.81	2,384.2	-1,258.8	-23.4	69.8	70.3	9.40	565,309.53	475,162.56	
2,441.0	44.41	101.84	2,407.0	-1,236.0	-27.9	90.3	90.9	11.27	565,305.05	475,183.10	
2,473.0	48.45	99.38	2,429.0	-1,214.0	-32.1	113.1	113.8	13.80	565,300.80	475,205.88	
2,505.0	50.39	97.18	2,449.8	-1,193.2	-35.6	137.1	138.0	8.00	565,297.31	475,229.93	
2,536.0	52.41	94.46	2,469.2	-1,173.8	-38.1	161.2	162.1	9.46	565,294.86	475,254.02	
2,568.0	54.43	91.91	2,488.3	-1,154.7	-39.5	186.9	187.8	8.99	565,293.44	475,279.68	
2,600.0	56.37	89.62	2,506.4	-1,136.6	-39.8	213.2	214.1	8.45	565,293.10	475,306.01	
2,632.0	59.27	89.45	2,523.5	-1,119.5	-39.6	240.3	241.2	9.07	565,293.32	475,333.09	
2,663.0	62.34	90.15	2,538.6	-1,104.4	-39.5	267.3	268.2	10.10	565,293.41	475,360.15	
2,695.0	65.33	91.12	2,552.7	-1,090.3	-39.8	296.1	297.0	9.73	565,293.09	475,388.86	
2,727.0	67.88	90.68	2,565.4	-1,077.6	-40.3	325.4	326.3	8.07	565,292.63	475,418.23	
2,759.0	70.43	89.89	2,576.8	-1,066.2	-40.4	355.3	356.2	8.30	565,292.48	475,448.13	
2,791.0	72.28	87.78	2,587.0	-1,056.0	-39.8	385.6	386.5	8.51	565,293.10	475,478.44	
2,842.0	75.45	84.48	2,601.2	-1,041.8	-36.5	434.5	435.3	8.79	565,296.42	475,527.31	
2,872.0	76.50	83.75	2,608.5	-1,034.5	-33.5	463.4	464.1	4.22	565,299.40	475,556.26	
2,903.0	76.77	83.47	2,615.6	-1,027.4	-30.2	493.4	494.0	1.24	565,302.76	475,586.23	
2,934.0	77.12	83.45	2,622.6	-1,020.4	-26.7	523.4	523.9	1.13	565,306.20	475,616.23	
2,965.0	78.44	84.33	2,629.2	-1,013.8	-23.5	553.5	554.0	5.08	565,309.42	475,646.36	



Pathfinder
PathfinderX & Y Report



Company:	Yates Petroleum Corp	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County (NAD 83)	TVD Reference:	KB = 10 @ 3643 0usft (Felderhoff 25)
Site:	Palo Verde "A" Federal Com	MD Reference:	KB = 10 @ 3643 0usft (Felderhoff 25)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 1 Single User Db

MD (usft)	Inc (°)	Azi (Azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (/100usft)	Northing (usft)	Easting (usft)
2,996 0	79 49	85 16	2,635 1	-1,007 9	-20 7	583 8	584 2	4 29	565,312 21	475,676 66
3,027 0	80 28	86 37	2,640 6	-1,002 4	-18 5	614 3	614 5	4 61	565,314 46	475,707 09
3,058 0	81 78	87 50	2,645 4	-997 6	-16 8	644 9	645 1	6 03	565,316 10	475,737 66
3,089 0	83 36	88 20	2,649 4	-993 6	-15 7	675 6	675 8	5 57	565,317 25	475,768 38
3,120 0	85 38	88 45	2,652 5	-990 5	-14 8	706 4	706 6	6 57	565,318 15	475,799 22
3,151 0	87 49	89 04	2,654 4	-988 6	-14 1	737 3	737 5	7 07	565,318 83	475,830 15
3,182 0	88 99	89 45	2,655 3	-987 7	-13 7	768 3	768 4	5 02	565,319 24	475,861 13
3,212 0	89 25	89 25	2,655 8	-987 2	-13 3	798 3	798 4	1 09	565,319 58	475,891 12
LP - 3212 0 'MD, 2655 8 'TVD, -13 3 'N, 798 3 'E										
3,243 0	89 60	89 04	2,656 1	-986 9	-12 9	829 3	829 4	1 32	565,320 04	475,922 12
3,274 0	89 78	89 18	2,656 3	-986 7	-12 4	860 3	860 3	0 74	565,320 52	475,953 12
3,305 0	90 13	89 22	2,656 3	-986 7	-12 0	891 3	891 3	1 14	565,320 96	475,984 11
3,335 0	90 04	90 97	2,656 3	-986 7	-12 0	921 3	921 3	5 84	565,320 91	476,014 11
3,366 0	90 22	91 38	2,656 2	-986 8	-12 7	952 3	952 3	1 44	565,320 27	476,045 10
3,397 0	90 48	91 12	2,656 0	-987 0	-13 3	983 3	983 3	1 19	565,319 59	476,076 10
3,428 0	90 84	91 08	2,655 6	-987 4	-13 9	1,014 3	1,014 3	1 17	565,319 00	476,107 09
3,459 0	91 01	91 18	2,655 1	-987 9	-14 5	1,045 3	1,045 3	0 64	565,318 39	476,138 08
3,490 0	89 34	91 90	2,655 0	-988 0	-15 4	1,076 3	1,076 3	5 87	565,317 55	476,169 07
3,521 0	89 60	91 98	2,655 3	-987 7	-16 4	1,107 2	1,107 3	0 88	565,316 50	476,200 05
3,552 0	88 64	92 72	2,655 8	-987 2	-17 7	1,138 2	1,138 3	3 91	565,315 23	476,231 02
3,583 0	89 08	92 51	2,656 4	-986 6	-19 1	1,169 2	1,169 3	1 57	565,313 82	476,261 98
3,645 0	88 99	91 87	2,657 5	-985 5	-21 5	1,231 1	1,231 3	1 04	565,311 45	476,323 92
3,707 0	87 58	91 68	2,659 3	-983 7	-23 4	1,293 1	1,293 2	2 29	565,309 53	476,385 86
3,770 0	86 26	91 46	2,662 7	-980 3	-25 1	1,355 9	1,356 1	2 12	565,307 81	476,448 75
3,833 0	87 41	91 25	2,666 2	-976 8	-26 6	1,418 8	1,419 0	1 86	565,306 32	476,511 63
3,897 0	87 93	90 70	2,668 8	-974 2	-27 7	1,482 8	1,483 0	1 18	565,305 23	476,575 57
3,960 0	88 20	90 00	2,670 9	-972 1	-28 1	1,545 7	1,545 9	1 19	565,304 85	476,638 53



Pathfinder
PathfinderX & Y Report



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County (NAD 83)	TVD Reference:	KB = 10 @ 3643 0usft (Felderhoff 29)
Site:	Palo Verde "A JV" Federal Com	MD Reference:	KB = 10 @ 3643 0usft (Felderhoff 25)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (1/100usft)	Northing (usft)	Easting (usft)
4,024 0	88 84	89 90	2,672 7	-970 3	-28 0	1,609 7	1,609 9	0 71	565,304 90	476,702 51
4,086 0	88 99	89 57	2,674 0	-969 0	-27 7	1,671 7	1,671 9	0 78	565,305 19	476,764 49
4,149 0	89 43	89 58	2,674 8	-968 2	-27 3	1,734 7	1,734 8	0 70	565,305 66	476,827 49
4,213 0	89 69	90 62	2,675 3	-967 7	-27 4	1,798 7	1,798 8	1 67	565,305 55	476,891 48
4,276 0	90 31	90 59	2,675 3	-967 7	-28 0	1,861 7	1,861 8	0 99	565,304 88	476,954 48
4,339 0	90 13	91 44	2,675 1	-967 9	-29 2	1,924 7	1,924 8	1 38	565,303 76	477,017 47
4,403 0	88 46	91 51	2,675 9	-967 1	-30 8	1,988 6	1,988 8	2 61	565,302 12	477,081 44
4,466 0	89 08	91 23	2,677 2	-965 8	-32 3	2,051 6	2,051 8	1 08	565,300 61	477,144 41
4,529 0	89 60	90 32	2,677 9	-965 1	-33 2	2,114 6	2,114 8	1 66	565,299 76	477,207 40
4,591 0	89 25	90 46	2,678 6	-964 4	-33 6	2,176 6	2,176 7	0 61	565,299 34	477,269 39
4,654 0	88 11	91 15	2,680 0	-963 0	-34 5	2,239 6	2,239 7	2 12	565,298 45	477,332 37
4,717 0	88 02	89 93	2,682 1	-960 9	-35 1	2,302 5	2,302 7	1 94	565,297 86	477,395 33
4,781 0	88 46	90 44	2,684 1	-958 9	-35 3	2,366 5	2,366 6	1 05	565,297 65	477,459 30
4,844 0	89 16	90 31	2,685 4	-957 6	-35 7	2,429 5	2,429 6	1 13	565,297 24	477,522 28
4,908 0	89 08	91 55	2,686 4	-956 6	-36 7	2,493 5	2,493 6	1 94	565,296 20	477,586 26
4,988 0	88 90	92 96	2,687 8	-955 2	-39 9	2,573 4	2,573 6	1 78	565,293 05	477,666 19
5,050 0	89 16	93 05	2,688 9	-954 1	-43 1	2,635 3	2,635 5	0 44	565,289 81	477,728 09
5,111 0	89 17	93 05	2,689 7	-953 3	-46 4	2,696 2	2,696 5	0 02	565,286 56	477,789 00
5,173 0	89 08	92 96	2,690 7	-952 3	-49 6	2,758 1	2,758 5	0 21	565,283 31	477,850 91
5,235 0	86 88	92 87	2,692 9	-950 1	-52 8	2,820 0	2,820 4	3 55	565,280 16	477,912 79
5,296 0	87 49	93 31	2,695 9	-947 1	-56 1	2,880 8	2,881 3	1 23	565,276 87	477,973 62
5,358 0	87 41	93 23	2,698 6	-944 4	-59 6	2,942 7	2,943 2	0 18	565,273 34	478,035 46
5,420 0	87 32	92 61	2,701 5	-941 5	-62 7	3,004 5	3,005 1	1 01	565,270 19	478,097 31
5,482 0	87 93	91 56	2,704 1	-938 9	-65 0	3,066 4	3,067 1	1 96	565,267 93	478,159 22
5,544 0	89 34	92 43	2,705 5	-937 5	-67 2	3,128 4	3,129 1	2 67	565,265 78	478,221 16
5,606 0	88 90	92 35	2,706 5	-936 5	-69 7	3,190 3	3,191 0	0 72	565,263 19	478,283 10
5,669 0	88 72	92 52	2,707 8	-935 2	-72 4	3,253 2	3,254 0	0 39	565,260 51	478,346 03



Pathfinder
PathfinderX & Y Report



Company:	Yates Petroleum Corp	Local Coordinate Reference:	Well #1H
Project:	Eddy County (NAD 83)	TVD Reference:	KB = 10 @ 3643 0usft (Felderhoff 25)
Site:	Palo Verde "AJV" Federal Com	MD Reference:	KB = 10 @ 3643 0usft (Felderhoff 25)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc. (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (/100usft)	Northing (usft)	Easting (usft)
5,733.0	89.78	93.23	2,708.6	-934.4	-75.6	3,317.1	3,318.0	1.99	565,257.30	478,409.94
5,796.0	89.25	93.31	2,709.2	-933.8	-79.2	3,380.0	3,381.0	0.85	565,253.71	478,472.84
5,860.0	88.72	93.23	2,710.3	-932.7	-82.9	3,443.9	3,444.9	0.84	565,250.06	478,536.72
5,923.0	87.23	91.20	2,712.5	-930.5	-85.3	3,506.8	3,507.9	4.00	565,247.63	478,599.63
5,987.0	87.32	91.47	2,715.6	-927.4	-86.8	3,570.7	3,571.8	0.44	565,246.14	478,663.54
6,050.0	87.67	91.47	2,718.3	-924.7	-88.4	3,633.7	3,634.7	0.56	565,244.52	478,726.46
6,114.0	88.55	90.85	2,720.4	-922.6	-89.7	3,697.6	3,698.7	1.68	565,243.23	478,790.41
6,178.0	89.08	90.85	2,721.8	-921.2	-90.6	3,761.6	3,762.7	0.83	565,242.28	478,854.39
6,241.0	88.81	90.50	2,722.9	-920.1	-91.4	3,824.6	3,825.7	0.70	565,241.54	478,917.38
6,309.0	88.99	89.71	2,724.2	-918.8	-91.5	3,892.6	3,893.6	1.19	565,241.41	478,985.36
6,373.0	89.96	89.80	2,724.8	-918.2	-91.2	3,956.5	3,957.6	1.52	565,241.69	479,049.36
6,436.0	90.75	89.45	2,724.4	-918.6	-90.8	4,019.5	4,020.6	1.37	565,242.10	479,112.36
6,499.0	90.48	89.36	2,723.7	-919.3	-90.2	4,082.5	4,083.5	0.45	565,242.75	479,175.35
6,562.0	91.28	88.92	2,722.8	-920.2	-89.2	4,145.5	4,146.5	1.45	565,243.70	479,238.33
6,625.0	91.71	89.45	2,721.1	-921.9	-88.3	4,208.5	4,209.4	1.08	565,244.59	479,301.31
6,688.0	91.36	89.01	2,719.4	-923.6	-87.5	4,271.5	4,272.3	0.89	565,245.44	479,364.28
6,751.0	91.10	88.66	2,718.1	-924.9	-86.2	4,334.4	4,335.2	0.69	565,246.72	479,427.25
6,815.0	90.57	89.62	2,717.2	-925.8	-85.2	4,398.4	4,399.2	1.71	565,247.68	479,491.23
6,880.0	90.57	89.62	2,716.5	-926.5	-84.8	4,463.4	4,464.1	0.00	565,248.11	479,556.23
BHL - 6880.0 'MD, 2716.5 'TVD, -84.8 'N, 4463.4 'E										

Design/Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comments
		N/S (usft)	E/W (usft)	
2,197.0	2,196.2	3.6	-21.0	KOP - 2197.0 'MD, 2196.2 'TVD, 3.6 'N, -21.0 'E
3,212.0	2,655.8	-13.3	798.3	LP - 3212.0 'MD, 2655.8 'TVD, -13.3 'N, 798.3 'E
6,880.0	2,716.5	-84.8	4,463.4	BHL - 6880.0 'MD, 2716.5 'TVD, -84.8 'N, 4463.4 'E



Pathfinder
PathfinderX & Y Report



Company:	Yates Petroleum Corp	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County (NAD 83)	IVD Reference:	KB = 10 @ 3643 0usft (Felderhoff 25)
Site:	Palo Verde "A" Federal Com	MD Reference:	KB = 10 @ 3643 0usft (Felderhoff 25)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 1 Single User Db

Checked By	_____	Approved By	_____	Date	_____
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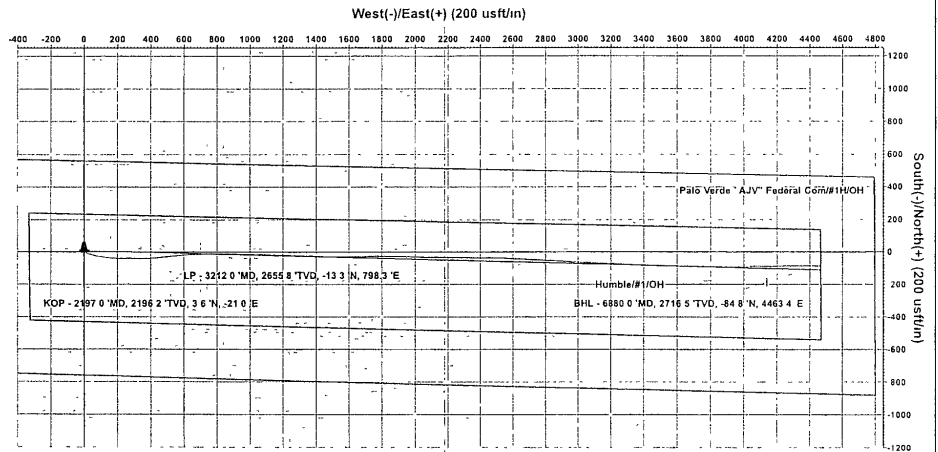


Project Eddy County (NAD 83)
Site: Palo Verde "AJV" Federal Com
Well: #1H
Wellbore: OH
Plan: Post Gyro Plan #3 (#1H/OH)

PATHFINDER
A Schlumberger Company

PROJECT DETAILS Eddy County (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

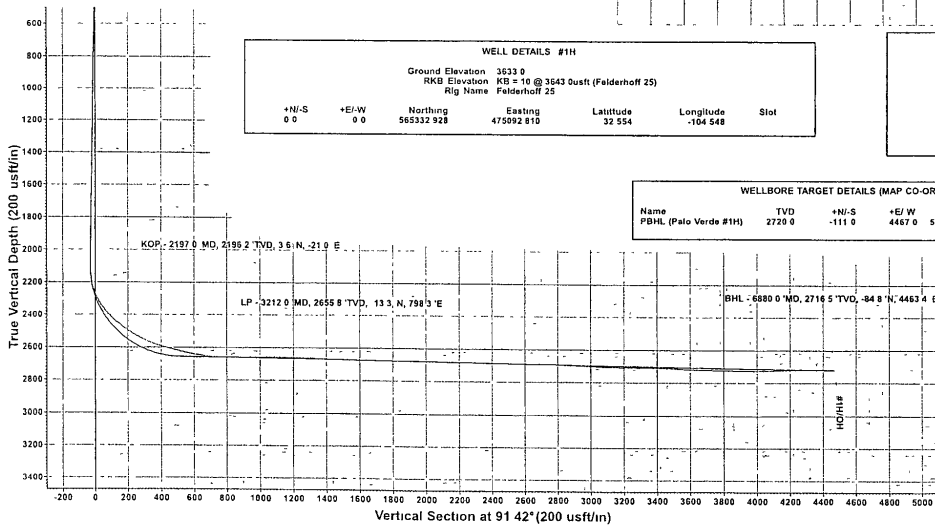
G
T
M
Azimuths to Grid North
True North 0 12°
Magnetic North 8 06°
Magnetic Field
Strength 48658 4nT
Dip Angle 60 33°
Date 4/26/2012
Model IGRF200510



WELL DETAILS #1H						
Ground Elevation	3533 0					
RKB Elevation	KB = 10 @ 3543 0usft (Felderhoff 25)					
Rig Name	Felderhoff 25					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0 0	0 0	565332 928	475592 810	32 554	-104 548	

SECTION DETAILS							
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace
2100 0	1 12	308 97	2099 7	3 4	-29 3	0 00	0 00
2101 9	1 12	308 97	2101 6	3 5	-29 3	0 00	0 00
2854 2	89 03	91 54	2653 0	-4 4	504 5	10 55	142 58
6918 7	89 03	91 54	2720 0	111 0	4467 0	0 00	0 00
							4468 3 PBHL (Palo Verde #1H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)					
Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL (Palo Verde #1H)	2720 0	-111 0	4467 0	565221 917	479559 776



EOW

Plan Post Gyro Plan #3 (#1H/OH)			
Created By	Sam Biddle	Date	9 26 May 28 2012
Checked		Date	