

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form 102
Revised October 12, 2006
Submit to Appropriate District Office
State Lease- 4 Copies
Fee Lease- 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-35505	Pool Code 97489	Pool Name WILDCAT; WOLFCAMP (GAS)
Property Code 36416	Property Name ORINOCO "A" 8 FEE	Well Number 2H
OGRID No. 7377	Operator Name EOG RESOURCES, INC.	Elevation 3349'

Surface Location

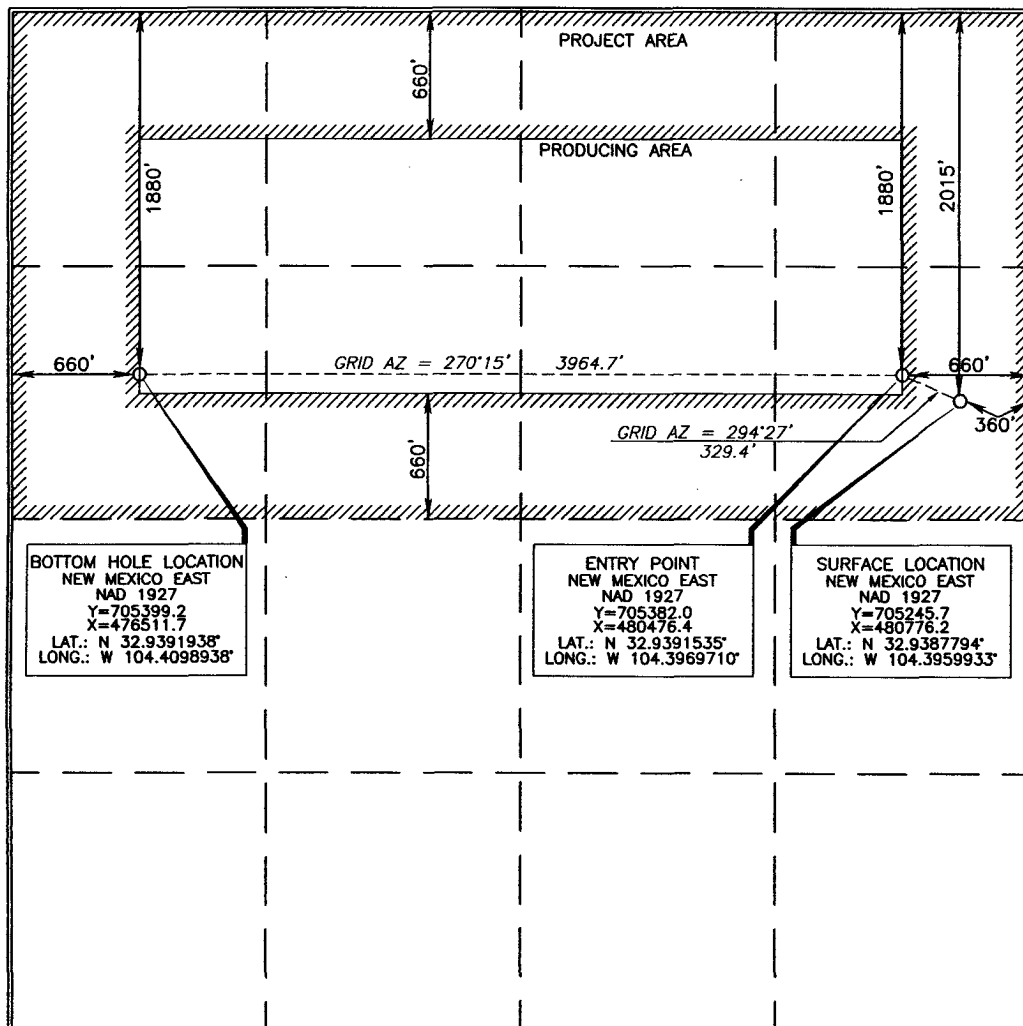
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	8	16 SOUTH	26 EAST, N.M.P.M.		2015'	NORTH	360'	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	8	16 SOUTH	26 EAST, N.M.P.M.		1880'	NORTH	660'	WEST	EDDY

Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Donny G. Glanton 3/26/07
Signature Date

Donny G. Glanton
Printed Name

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

DECEMBER 12, 2006
Date of Survey

Signature and Seal of Professional Surveyor

Terry J. Paul 2/20/07
Certificate Number 15079

WO# 061212WL-c (JL)

Permit Information:

Well Name: Orinoco A 8 Fee #2H

Location:

SL 2015' FNL & 360' FEL, Section 8, T-16-S, R-26-E, Eddy Co., N.M.

BHL 1880' FNL & 660' FWL, Section 8, T-16-S, R-26-E, Eddy Co., N.M.

Casing Program:

Casing	Setting Depth	Hole Size	Casing Size	Casing Weight	Casing Grade	Desired TOC
Surface	1,000'	12-1/4"	8-5/8"	32#	J-55	Surface
Production	9,132'	7-7/8"	5 1/2"	17#	N-80	Surface

Q 1125

Cement Program:

1125

Depth	No. Sacks	Slurries:
1,000'	200	Lead: Premium Plus + 2% CaCl ₂ + 3% Econolite + 1/4 pps Flocele
	175	Tail: Premium Plus + 2% CaCl ₂ + 1/4 pps Flocele
9,132'	400	Lead: Interfill C + 1/4 pps Flocele
	350	Tail: Premium Cement + 100% Acid Soluble Additive + 0.6% Halad®-344 + 0.8% Econolite + 0.2% HR-55

Mud Program: 1125'

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1,000'	Fresh - Gel	8.6-8.8	28-34	N/c
1,000' - 4,600'	Cut Brine	8.8-9.2	28-34	N/c
4,600' - 5,400'	Cut Brine	8.8-9.2	28-34	10-15
4,580' - 9,132'	Polymer (Lateral)	9.0-9.4	40-45	10-20



EOG Resources, Inc.
P.O. Box 2267
Midland, TX 79702
(432) 686-3600

February 28, 2007

State of New Mexico Energy, Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

To Whom It May Concern:

I am writing to request a waiver for the inclusion of an H₂S Contingency Plan for the Orinoco A 8 Fee #2H. The current plan is to complete this well in the Wolfcamp, which is sweet, and I do not anticipate encountering any H₂S bearing formations during drilling operations.

Sincerely,

A handwritten signature in black ink, appearing to read "Jason LaGrega", written over the printed name.

Jason LaGrega
Drilling Engineer

Pathfinder Energy Planning Report

Company: EOG Resources Field: Orinoco 8 Fee#2H Site: Orinoco 8 Fee #2H Well: Orinoco A 8 Fee #2H Wellpath: OH				Date: 3/2/2007 Co-ordinate(N/E) Reference: Orinoco 8 Fee #2H, Grid North Vertical (TVD) Reference: SITE 0.0 Section (VS) Reference: Well (0.00N,0.00E,272.06Azi) Plan: Plan #1 3-2-07				Time: 16:18:17 Page: 1			
Field: Orinoco 8 Fee#2H				Map System: US State Plane Coordinate System 1927 Geo Datum: NAD27 (Clarke 1866) Sys Datum: Mean Sea Level				Map Zone: New Mexico, Eastern Zone Coordinate System: Site Centre Geomagnetic Model: igrf2005			
Site: Orinoco 8 Fee #2H											
Site Position: From: Map Position Uncertainty: 0.00 ft Ground Level: 3349.00 ft		Northing: 705245.70 ft Easting: 480776.20 ft		Latitude: 32 56 19.606 N Longitude: 104 23 45.576 W North Reference: Grid Grid Convergence: -0.03 deg							
Well: Orinoco A 8 Fee #2H				Slot Name:							
Well Position: +N/-S 0.00 ft Position Uncertainty: 0.00 ft		Northing: 705245.70 ft Easting: 480776.20 ft		Latitude: 32 56 19.606 N Longitude: 104 23 45.576 W							
Wellpath: OH				Drilled From: Surface Tie-on Depth: 0.00 ft Above System Datum: Mean Sea Level Declination: 8.52 deg Mag Dip Angle: 60.81 deg +E/-W Direction deg							
Current Datum: SITE Magnetic Data: 3/2/2007 Field Strength: 49427 nT Vertical Section: Depth From (TVD) ft		Height 0.00 ft +N/-S ft		0.00 0.00		272.06					
Plan: Plan #1 3-2-07				Date Composed: 3/2/2007 Version: 1 Tied-to: From Surface							
Principal: No											
Plan Section Information											
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4580.00	0.00	0.00	4580.00	0.00	0.00	0.00	0.00	0.00	0.00		
5187.80	72.00	282.00	5040.00	69.49	-326.91	11.85	11.85	0.00	282.00		
5379.78	90.00	270.97	5070.00	90.33	-514.29	10.95	9.38	-5.75	327.76		
6857.78	90.00	270.97	5070.00	115.35	-1992.08	0.00	0.00	0.00	0.00		
6924.28	91.99	270.96	5068.84	116.47	-2058.55	3.00	3.00	-0.01	-0.24		
9131.70	91.99	270.96	4992.01	153.50	-4264.32	0.00	0.00	0.00	0.00		
9131.88	92.00	270.96	4992.00	153.50	-4264.50	3.00	2.84	-0.96	-18.60	PBHL	
Survey											
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00		
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00		
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00		
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00		
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00		
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00		
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00		
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00		
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00		
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	0.00		
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00		
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00				

Pathfinder Energy

Planning Report

Company: EOG Resources
 Field: Orinoco 8 Fee#2H
 Site: Orinoco 8 Fee #2H
 Well: Orinoco A 8 Fee #2H
 Wellpath: OH

Date: 3/2/2007 Time: 16:18:17 Page: 2
 Co-ordinate(N/E) Reference: Orinoco 8 Fee #2H, Grid North
 Vertical (TVD) Reference: SITE 0.0
 Section (VS) Reference: Well (0.00N,0.00E,272.06Azi)
 Plan: Plan #1 3-2-07

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00	0.00	
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	0.00	
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	0.00	
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	0.00	0.00	
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00	0.00	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00	0.00	
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00	0.00	
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	0.00	0.00	
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	0.00	0.00	
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00	0.00	
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00	0.00	
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00	0.00	
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	0.00	0.00	
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	0.00	0.00	
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	0.00	0.00	
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	0.00	0.00	
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	0.00	0.00	
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	0.00	0.00	
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00	0.00	
4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	0.00	0.00	
4400.00	0.00	0.00	4400.00	0.00	0.00	0.00	0.00	0.00	0.00	
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	0.00	0.00	
4580.00	0.00	0.00	4580.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP @ 4580' MD/TVD
4600.00	2.37	282.00	4599.99	0.09	-0.40	0.41	11.85	11.85	0.00	
4700.00	14.22	282.00	4698.77	3.08	-14.49	14.59	11.85	11.85	0.00	
4800.00	26.06	282.00	4792.49	10.22	-48.10	48.44	11.85	11.85	0.00	
4900.00	37.91	282.00	4877.16	21.22	-99.82	100.52	11.85	11.85	0.00	
5000.00	49.75	282.00	4949.17	35.59	-167.44	168.61	11.85	11.85	0.00	
5100.00	61.60	282.00	5005.46	52.73	-248.08	249.81	11.85	11.85	0.00	
5187.80	72.00	282.00	5040.00	69.49	-326.91	329.19	11.85	11.85	0.00	
5200.00	73.13	281.26	5043.66	71.83	-338.31	340.67	10.95	9.27	-6.10	
5300.00	82.48	275.43	5064.77	85.90	-434.88	437.68	10.95	9.35	-5.83	
5379.78	90.00	270.97	5070.00	90.33	-514.29	517.20	10.95	9.42	-5.59	EOC @ 5379' MD, 5070' TVD
5400.00	90.00	270.97	5070.00	90.67	-534.50	537.42	0.00	0.00	0.00	
5500.00	90.00	270.97	5070.00	92.36	-634.49	637.40	0.00	0.00	0.00	
5600.00	90.00	270.97	5070.00	94.05	-734.47	737.38	0.00	0.00	0.00	
5700.00	90.00	270.97	5070.00	95.75	-834.46	837.36	0.00	0.00	0.00	
5800.00	90.00	270.97	5070.00	97.44	-934.44	937.34	0.00	0.00	0.00	
5900.00	90.00	270.97	5070.00	99.13	-1034.43	1037.33	0.00	0.00	0.00	
6000.00	90.00	270.97	5070.00	100.83	-1134.41	1137.31	0.00	0.00	0.00	
6100.00	90.00	270.97	5070.00	102.52	-1234.40	1237.29	0.00	0.00	0.00	
6200.00	90.00	270.97	5070.00	104.21	-1334.39	1337.27	0.00	0.00	0.00	
6300.00	90.00	270.97	5070.00	105.90	-1434.37	1437.25	0.00	0.00	0.00	

Pathfinder Energy

Planning Report

Company: EOG Resources	Date: 3/2/2007	Time: 16:18:17	Page: 3
Field: Orinoco 8 Fee#2H	Co-ordinate(NE) Reference: Orinoco 8 Fee #2H, Grid North		
Site: Orinoco 8 Fee #2H	Vertical (TVD) Reference: SITE 0.0		
Well: Orinoco A 8 Fee #2H	Section (VS) Reference: Well (0.00N,0.00E,272.06Azi)		
Wellpath: OH	Plan: Plan #1 3-2-07		

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
6400.00	90.00	270.97	5070.00	107.60	-1534.36	1537.24	0.00	0.00	0.00	
6500.00	90.00	270.97	5070.00	109.29	-1634.34	1637.22	0.00	0.00	0.00	
6600.00	90.00	270.97	5070.00	110.98	-1734.33	1737.20	0.00	0.00	0.00	
6700.00	90.00	270.97	5070.00	112.68	-1834.31	1837.18	0.00	0.00	0.00	
6800.00	90.00	270.97	5070.00	114.37	-1934.30	1937.16	0.00	0.00	0.00	
6857.78	90.00	270.97	5070.00	115.35	-1992.08	1994.94	0.00	0.00	0.00	Begin Build @ 6857' MD
6900.00	91.27	270.96	5069.53	116.06	-2034.28	2037.14	3.00	3.00	-0.01	
6924.28	91.99	270.96	5068.84	116.47	-2058.55	2061.40	3.00	3.00	-0.01	End Build @ 6924' MD, 91.
7000.00	91.99	270.96	5066.21	117.74	-2134.21	2137.07	0.00	0.00	0.00	
7100.00	91.99	270.96	5062.73	119.42	-2234.14	2236.99	0.00	0.00	0.00	
7200.00	91.99	270.96	5059.25	121.09	-2334.06	2336.91	0.00	0.00	0.00	
7300.00	91.99	270.96	5055.76	122.77	-2433.99	2436.83	0.00	0.00	0.00	
7400.00	91.99	270.96	5052.28	124.45	-2533.91	2536.75	0.00	0.00	0.00	
7500.00	91.99	270.96	5048.80	126.13	-2633.84	2636.67	0.00	0.00	0.00	
7600.00	91.99	270.96	5045.32	127.80	-2733.76	2736.59	0.00	0.00	0.00	
7700.00	91.99	270.96	5041.84	129.48	-2833.69	2836.51	0.00	0.00	0.00	
7800.00	91.99	270.96	5038.36	131.16	-2933.62	2936.43	0.00	0.00	0.00	
7900.00	91.99	270.96	5034.88	132.84	-3033.54	3036.36	0.00	0.00	0.00	
8000.00	91.99	270.96	5031.40	134.51	-3133.47	3136.28	0.00	0.00	0.00	
8100.00	91.99	270.96	5027.92	136.19	-3233.39	3236.20	0.00	0.00	0.00	
8200.00	91.99	270.96	5024.44	137.87	-3333.32	3336.12	0.00	0.00	0.00	
8300.00	91.99	270.96	5020.96	139.55	-3433.24	3436.04	0.00	0.00	0.00	
8400.00	91.99	270.96	5017.48	141.22	-3533.17	3535.96	0.00	0.00	0.00	
8500.00	91.99	270.96	5013.99	142.90	-3633.09	3635.88	0.00	0.00	0.00	
8600.00	91.99	270.96	5010.51	144.58	-3733.02	3735.80	0.00	0.00	0.00	
8700.00	91.99	270.96	5007.03	146.26	-3832.94	3835.72	0.00	0.00	0.00	
8800.00	91.99	270.96	5003.55	147.93	-3932.87	3935.64	0.00	0.00	0.00	
8900.00	91.99	270.96	5000.07	149.61	-4032.79	4035.57	0.00	0.00	0.00	
9000.00	91.99	270.96	4996.59	151.29	-4132.72	4135.49	0.00	0.00	0.00	
9100.00	91.99	270.96	4993.11	152.97	-4232.64	4235.41	0.00	0.00	0.00	
9131.88	92.00	270.96	4992.00	153.50	-4264.50	4267.26	0.02	0.02	-0.01	PBHL

Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude --->			<--- Longitude --->		
PBHL		4992.00	153.50	-4264.50	705399.20	476511.70	32	56	21.097 N	104	24	35.618 W

Annotation

MD ft	TVD ft	
4580.00	4580.00	KOP @ 4580' MD/TVD
5379.78	5070.00	EOC @ 5379' MD, 5070' TVD
6857.78	5070.00	Begin Build @ 6857' MD
6924.28	5068.84	End Build @ 6924' MD, 91.99° INC



COMPANY DETAILS

EOG Resources
4000 N. Big Spring, Ste. 500
Midland, TX 79705

Calculation Method: Minimum Curvature
Error System: Systematic Ellipse
Scan Method: Closest Approach 3D
Error Surface: Elliptical Conic
Warning Method: Error Ratio



Field: Orinoco 8 Fee#2H
Site: Orinoco 8 Fee #2H
Well: Orinoco A 8 Fee #2H
Wellpath: OH
Plan: Plan #1 3-2-07

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Orinoco A 8 Fee #2H	0.00	0.00	705245.70	480776.20	32°56'19.606N	104°23'45.576W	N/A

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4580.00	0.00	0.00	4580.00	0.00	0.00	0.00	0.00	0.00	
3	5187.80	72.00	282.00	5046.00	69.49	-326.91	11.85	282.00	329.19	
4	5379.78	90.00	270.97	5070.00	90.33	-514.29	10.95	327.76	517.20	
5	6857.78	90.00	270.97	5070.00	115.35	-1992.08	0.00	0.00	1994.94	
6	6924.28	91.99	270.96	5068.84	116.47	-2058.55	3.00	-0.24	2061.40	
7	9131.70	91.99	270.96	4992.01	153.50	-4264.32	0.00	0.00	4267.08	
8	9131.88	92.00	270.96	4992.00	153.50	-4264.50	3.00	-18.60	4267.26	PBHL



Azimuths to Grid North
True North: 0.03°
Magnetic North: 8.55°

Magnetic Field
Strength: 494276T
Dip Angle: 60.81°
Date: 3/2/2007
Model: igr2005

SITE DETAILS

Orinoco 8 Fee #2H
Site Centre Northing: 705245.70
Easting: 480776.20
Ground Level: 3349.00
Positional Uncertainty: 0.00
Convergence: -0.03

FIELD DETAILS

Orinoco 8 Fee#2H
Geodetic System: US State Plane Coordinate System 1927
Ellipsoid: NAD27 (Clarke 1866)
Zone: New Mexico, Eastern Zone
Magnetic Model: igr2005
System Datum: Mean Sea Level
Local North: Grid North

ANNOTATIONS

No.	TVD	MD	Annotation
1	4580.00	4580.00	KOP @ 4580' MD/TVD
2	5070.00	5379.78	EOC @ 5379' MD, 5070' TVD
3	5070.00	6857.78	Begin Build @ 6857' MD
4	5068.84	6924.28	End Build @ 6924' MD, 91.99° INC

