

DISTRICT IV
1230 S. St. Francis Dr., Santa Fe, NM 87505

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Submit to Appropriate District Office
State Lease - 4 Copies
Fed Lease - 3 Copies

☐ AMENDED REPORT

API Number 30-015-35508	Pool Code 97489	Pool Name WILDCAT; WOLF CAMP GAS
Property Code 36421	Property Name GRAHAM FEDERAL "7"	Well Number 1
OGED No. 15363	Operator Name MURCHISON OIL & GAS, INC.	Elevation 4011'

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	7	18 S	23 E		220	SOUTH	660	EAST	EDDY

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	7	18 S	23 E		760	NORTH	760	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
33.0			

Pathfinder Energy Planning Report

Company: Murchison Oil & Gas			Date: 4/10/2007			Time: 15:33:33			Page: 1		
Field: Eddy County, NM NAD-83			Co-ordinate(NE) Reference: SITE 4009.0			Site: Graham Federal "7" #1, Grid North					
Site: Graham Federal "7" #1			Vertical (TVD) Reference: SITE 4009.0								
Well: Graham Federal "7" #1			Section (VS) Reference: Well (0.00N,0.00E,358.67Azi)								
Wellpath: OH			Plan: Plan #3 4-10-07								
Field: Eddy County, NM NAD-83											
Map System: US State Plane Coordinate System 1983						Map Zone: New Mexico, Eastern Zone					
Geo Datum: GRS 1980						Coordinate System: Site Centre					
Sys Datum: Mean Sea Level						Geomagnetic Model: igrf2005					
Site: Graham Federal "7" #1											
Site Position:			Northing: 638911.42 ft		Latitude: 32 45 20.846 N						
From: Map			Easting: 421207.32 ft		Longitude: 104 43 26.781 W						
Position Uncertainty: 0.00 ft					North Reference: Grid						
Ground Level: 4009.00 ft					Grid Convergence: -0.21 deg						
Well: Graham Federal "7" #1											
						Slot Name:					
Well Position: +N/-S 0.00 ft			Northing: 638911.42 ft		Latitude: 32 45 20.846 N						
+E/-W 0.00 ft			Easting: 421207.32 ft		Longitude: 104 43 26.781 W						
Position Uncertainty: 0.00 ft											
Wellpath: OH											
Current Datum: SITE			Height: 4009.00 ft		Drilled From: Surface						
Magnetic Data: 11/2/2006					Tie-on Depth: 0.00 ft						
Field Strength: 49307 nT					Above System Datum: Mean Sea Level						
Vertical Section: Depth From (TVD)			+N/-S		Declination: 8.69 deg						
ft			ft		Mag Dip Angle: 60.59 deg						
					+E/-W		Direction				
					ft		deg				
0.00			0.00		0.00		358.67				
Plan: Plan #3 4-10-07											
						Date Composed: 11/2/2006					
						Version: 1					
Principal: No						Tied-to: From Surface					
Plan Section Information											
MD	Incl	Azim	TVD	+N/-S	+E/-W	DLS	Build	Turn	TFO	Target	
ft	deg	deg	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	deg		
0.00	0.00	0.00	0.00	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		
2366.67	4.00	350.00	2366.45	9.16	-1.62	1.50	1.50	0.00	350.00		
3600.00	4.00	350.00	3596.78	93.89	-16.56	0.00	0.00	0.00	0.00		
4383.38	60.00	352.00	4235.00	488.65	-73.08	7.15	7.15	0.26	2.09		
5027.35	90.00	359.57	4400.00	1101.65	-115.33	4.79	4.66	1.18	14.88		
5050.93	90.00	0.28	4400.00	1125.22	-115.37	3.00	0.00	3.00	90.00		
8225.74	90.00	0.28	4400.00	4300.00	-100.00	0.00	0.00	0.00	0.00	PBHL	
Survey											
MD	Incl	Azim	TVD	+N/-S	+E/-W	VS	DLS	Build	Turn	Tool/Comment	
ft	deg	deg	ft	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft		
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</									

Pathfinder Energy

Planning Report

Company: Murchison Oil & Gas	Date: 4/10/2007	Time: 15:33:33	Page: 2
Field: Eddy County, NM NAD-83	Co-ordinate(NE) Reference: Site: Graham Federal "7" #1, Grid North		
Site: Graham Federal "7" #1	Vertical (TVD) Reference: SITE 4009.0		
Well: Graham Federal "7" #1	Section (VS) Reference: Well (0.00N,0.00E,358.67Azi)		
Wellpath: OH	Plan: Plan #3 4-10-07		

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	1.50	350.00	2199.99	1.29	-0.23	1.29	1.50	1.50	0.00	
2300.00	3.00	350.00	2299.91	5.16	-0.91	5.18	1.50	1.50	0.00	
2366.67	4.00	350.00	2366.45	9.16	-1.62	9.20	1.50	1.50	0.00	
2400.00	4.00	350.00	2399.70	11.45	-2.02	11.50	0.00	0.00	0.00	
2500.00	4.00	350.00	2499.46	18.32	-3.23	18.39	0.00	0.00	0.00	
2600.00	4.00	350.00	2599.22	25.19	-4.44	25.29	0.00	0.00	0.00	
2700.00	4.00	350.00	2698.97	32.06	-5.65	32.18	0.00	0.00	0.00	
2800.00	4.00	350.00	2798.73	38.93	-6.86	39.08	0.00	0.00	0.00	
2900.00	4.00	350.00	2898.48	45.80	-8.08	45.98	0.00	0.00	0.00	
3000.00	4.00	350.00	2998.24	52.67	-9.29	52.87	0.00	0.00	0.00	
3100.00	4.00	350.00	3098.00	59.54	-10.50	59.77	0.00	0.00	0.00	
3200.00	4.00	350.00	3197.75	66.41	-11.71	66.66	0.00	0.00	0.00	
3300.00	4.00	350.00	3297.51	73.28	-12.92	73.56	0.00	0.00	0.00	
3400.00	4.00	350.00	3397.27	80.15	-14.13	80.46	0.00	0.00	0.00	
3500.00	4.00	350.00	3497.02	87.02	-15.34	87.35	0.00	0.00	0.00	
3600.00	4.00	350.00	3596.78	93.89	-16.56	94.25	0.00	0.00	0.00	KOP @ 3600' MD
3700.00	11.15	351.34	3695.84	106.90	-18.62	107.30	7.15	7.15	1.34	
3800.00	18.30	351.64	3792.50	132.02	-22.36	132.50	7.15	7.15	0.30	
3900.00	25.44	351.78	3885.24	168.85	-27.72	169.45	7.15	7.15	0.13	
4000.00	32.59	351.86	3972.63	216.84	-34.62	217.58	7.15	7.15	0.08	
4100.00	39.74	351.91	4053.31	275.22	-42.94	276.15	7.15	7.15	0.05	
4200.00	46.89	351.95	4126.02	343.10	-52.57	344.23	7.15	7.15	0.04	
4300.00	54.04	351.98	4189.63	419.42	-63.34	420.78	7.15	7.15	0.03	
4383.38	60.00	352.00	4235.00	488.65	-73.08	490.22	7.15	7.15	0.03	Penetrate Wolfcamp @ 4235
4400.00	60.77	352.23	4243.21	502.96	-75.06	504.57	4.79	4.63	1.41	
4500.00	65.41	353.58	4288.46	591.43	-86.05	593.27	4.79	4.64	1.34	
4600.00	70.06	354.82	4326.34	683.47	-95.39	685.50	4.79	4.65	1.25	
4700.00	74.72	356.00	4356.59	778.45	-103.00	780.63	4.79	4.66	1.17	
4800.00	79.38	357.12	4378.99	875.70	-108.84	878.00	4.79	4.66	1.12	
4900.00	84.05	358.21	4393.39	974.55	-112.87	976.91	4.79	4.67	1.09	
5000.00	88.72	359.28	4399.69	1074.30	-115.06	1076.68	4.79	4.67	1.07	
5027.35	90.00	359.57	4400.00	1101.65	-115.33	1104.03	4.79	4.67	1.07	EOC @ 5027' MD / 4400' TV
5050.93	90.00	0.28	4400.00	1125.22	-115.37	1127.60	3.00	0.00	3.00	
5100.00	90.00	0.28	4400.00	1174.29	-115.13	1176.65	0.00	0.00	0.00	
5200.00	90.00	0.28	4400.00	1274.29	-114.64	1276.61	0.00	0.00	0.00	
5300.00	90.00	0.28	4400.00	1374.29	-114.16	1376.57	0.00	0.00	0.00	
5400.00	90.00	0.28	4400.00	1474.29	-113.68	1476.53	0.00	0.00	0.00	
5500.00	90.00	0.28	4400.00	1574.29	-113.19	1576.49	0.00	0.00	0.00	
5600.00	90.00	0.28	4400.00	1674.29	-112.71	1676.46	0.00	0.00	0.00	
5700.00	90.00	0.28	4400.00	1774.29	-112.22	1776.42	0.00	0.00	0.00	
5800.00	90.00	0.28	4400.00	1874.28	-111.74	1876.38	0.00	0.00	0.00	
5900.00	90.00	0.28	4400.00	1974.28	-111.26	1976.34	0.00	0.00	0.00	
6000.00	90.00	0.28	4400.00	2074.28	-110.77	2076.30	0.00	0.00	0.00	
6100.00	90.00	0.28	4400.00	2174.28	-110.29	2176.26	0.00	0.00	0.00	
6200.00	90.00	0.28	4400.00	2274.28	-109.80	2276.22	0.00	0.00	0.00	

Pathfinder Energy

Planning Report

Company: Murchison Oil & Gas
Field: Eddy County, NM NAD-83
Site: Graham Federal "7" #1
Well: Graham Federal "7" #1
Wellpath: OH

Date: 4/10/2007 **Time:** 15:33:33 **Page:** 3
Co-ordinate(NE) Reference: Site: Graham Federal "7" #1, Grid North
Vertical (TVD) Reference: SITE 4009.0
Section (VS) Reference: Well (0.00N,0.00E,358.67Azi)
Plan: Plan #3 4-10-07

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
6300.00	90.00	0.28	4400.00	2374.28	-109.32	2376.18	0.00	0.00	0.00	
6400.00	90.00	0.28	4400.00	2474.28	-108.84	2476.14	0.00	0.00	0.00	
6500.00	90.00	0.28	4400.00	2574.28	-108.35	2576.10	0.00	0.00	0.00	
6600.00	90.00	0.28	4400.00	2674.28	-107.87	2676.06	0.00	0.00	0.00	
6700.00	90.00	0.28	4400.00	2774.27	-107.38	2776.02	0.00	0.00	0.00	
6800.00	90.00	0.28	4400.00	2874.27	-106.90	2875.98	0.00	0.00	0.00	
6900.00	90.00	0.28	4400.00	2974.27	-106.42	2975.94	0.00	0.00	0.00	
7000.00	90.00	0.28	4400.00	3074.27	-105.93	3075.90	0.00	0.00	0.00	
7100.00	90.00	0.28	4400.00	3174.27	-105.45	3175.86	0.00	0.00	0.00	
7200.00	90.00	0.28	4400.00	3274.27	-104.96	3275.82	0.00	0.00	0.00	
7300.00	90.00	0.28	4400.00	3374.27	-104.48	3375.78	0.00	0.00	0.00	
7400.00	90.00	0.28	4400.00	3474.27	-104.00	3475.74	0.00	0.00	0.00	
7500.00	90.00	0.28	4400.00	3574.27	-103.51	3575.71	0.00	0.00	0.00	
7600.00	90.00	0.28	4400.00	3674.26	-103.03	3675.67	0.00	0.00	0.00	
7700.00	90.00	0.28	4400.00	3774.26	-102.54	3775.63	0.00	0.00	0.00	
7800.00	90.00	0.28	4400.00	3874.26	-102.06	3875.59	0.00	0.00	0.00	
7900.00	90.00	0.28	4400.00	3974.26	-101.58	3975.55	0.00	0.00	0.00	
8000.00	90.00	0.28	4400.00	4074.26	-101.09	4075.51	0.00	0.00	0.00	
8100.00	90.00	0.28	4400.00	4174.26	-100.61	4175.47	0.00	0.00	0.00	
8200.00	90.00	0.28	4400.00	4274.26	-100.12	4275.43	0.00	0.00	0.00	
8225.74	90.00	0.28	4400.00	4300.00	-100.00	4301.16	0.00	0.00	0.00	PBHL

Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude --->			<--- Longitude --->		
PBHL		4400.00	4300.00	-100.00	643211.42	421107.32	32	46	3.391 N	104	43	28.138 W

Annotation

MD ft	TVD ft	
3600.00	3596.78	KOP @ 3600' MD
5027.35	4400.00	EOC @ 5027' MD / 4400' TVD
4383.38	4235.00	Penetrate Wolfcamp @ 4235' TVD

Murchison Oil & Gas

Field: Eddy County, NM NAD-83
 Site: Graham Federal "7" #1
 Well: Graham Federal "7" #1
 Wellpath: OH
 Plan: Plan #3 4-10-07

PATHFINDER

SITE DETAILS

Graham Federal "7" #1
 Site Centre Northing: 638911.42
 Easting: 421207.32
 Ground Level: 4009.00
 Positional Uncertainty: 0.00
 Convergence: -0.21

WELLPATH DETAILS

OH
 Rig: SITE 4009.00ft
 Ref. Datum: SITE
 V. Section Angle: 358.67°
 Origin +N/-S: 0.00
 Origin +E/-W: 0.00
 Starting From TVD: 0.00

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
PBHL	4400.00	4300.00	-100.00	Point

ANNOTATIONS

No.	TVD	MD	Annotation
1	3596.78	3600.00	KOP @ 3600' MD
2	4400.00	5027.35	EOC @ 5027' MD / 4400' TVD
3	4235.00	4383.38	Penetrate Wolfcamp @ 4235' TVD

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	2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	
3	2366.67	4.00	350.00	2366.45	9.16	-1.62	1.50	350.00	9.20	
4	3600.00	4.00	350.00	3596.78	93.89	-16.56	0.00	0.00	94.25	
5	4383.38	60.00	352.00	4235.00	488.65	-73.08	7.15	2.09	490.22	
6	5027.35	90.00	359.57	4400.00	1101.65	-115.33	4.79	14.88	1104.03	
7	5050.93	90.00	0.28	4400.00	1125.22	-115.37	3.00	90.00	1127.60	
8	8225.74	90.00	0.28	4400.00	4300.00	-100.00	0.00	0.00	4301.16	PBHL

