Form 3160-3 (April 2004)

UNITED STATES

DEPARTMENT OF THE INTERIOR 2007 JUNE 11 AN 11: (

FORM APPROVED OMB No 1004-0137 Expires March 31, 2007

5. Lease Serial No. NMSF078643

BUREAU OF LAND MAN	AGEMENT STATE OF A	an H. U	(If I = 1: = All = 4 = 2	a. Triba Nama		
APPLICATION FOR PERMIT TO	DRILL OR REENTER.	.D	6. If Indian, Allotee	or tribe Name		
la. Type of work:	7 If Unit or CA Agre	ement, Name and No				
lb. Type of Well: Oil Well Gas Well Other	Lease Name and Well No. Wildwood No. 2					
2. Name of Operator McElvain Oil & Gas Properties, Inc.	9 API Well No.	-34345				
3a. Address 1050 17th Street, Suite 1800 Denver, CO 80265-1801	3b. Phone No. (include area code) 303.893.0933x302		10. Field and Pool, or Exploratory Basin Dakota			
4. Location of Well (Report location clearly and in accordance with an	v State requirements.*)		11. Sec., T. R. M. or Blk. and Survey or Area			
At surface 1770' FNL - 1485' FWL, Section 5,		F Sec. 5, T29N, R13W, NMPM				
At proposed prod. zone same				10.6		
14 Distance in miles and direction from nearest town or post office* 0.5 miles North of Farmington, New Mexico			12. County or Parish San Juan	13 State NM		
15 Distance from proposed* location to nearest				ing Unit dedicated to this well		
property or lease line, ft. (Also to nearest drig. unit line, if any) 866	520.58	N/2 - 3	319.76 acs.			
18 Distance from proposed location*	19 Proposed Depth 20. BLM/		/BIA Bond No. on file			
to nearest well, drilling, completed, applied for, on this lease, ft	5955' LPM		14138223			
21 Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will sta	rt*	23. Estimated duration			
5331' GL	08/01/2007		20 days			
	24. Attachments					
The following, completed in accordance with the requirements of Onshor	re Oil and Gas Order No.1, shall be a	ttached to thi	s form:			
Well plat certified by a registered surveyor. A Drilling Plan.	4 Bond to cover to Item 20 above).	he operation	ns unless covered by an	existing bond on file (see		
3 A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). 5 Operator certification 6. Such other site specific information and/or plans as may be required by the						
, ,	authorized offic					
25 Signature Robert E. Filolo	Name (Printed/Typed) Robert E. Fielder	•		Date 06/08/2007		
Title Agent						
Approved by (Signature)	Name (Printed/Typed)	Name (Printed/Typed) Date				
Title Office						
Application approval does not warrant or certify that the applicant hold conduct operations thereon. Conditions of approval, if any, are attached.	ls legal or equitable title to those righ	ts in the sub	ject lease which would	entitle the applicant to		
Continuous of approval, it ally, are attached.						

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on page 2) Submit application son pit permit on NMOCD form C-103 prior to

RCVD JUN20'07

OIL CONS. DIV.

DIST. 3

NMOCD 6-28-07

District I PO Box 1980, Hobbs, NM 88241-1980

District II PO Drawer DD, Artesia, NM 88211-0719

1000 Rio Brazos Rd., Aztec, NM 87410

District IV PO Box 2088, Santa Fe, NM 87504-2088

Pool Code

319.76 Acres - N/2

'API Number

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102
Revised February 21, 1994
Instructions on back
mit to Appropriate District Office

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

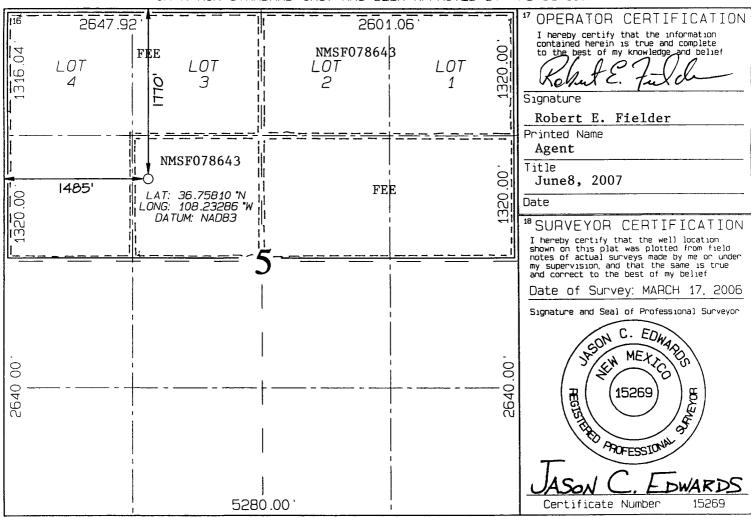
207 JUN 11 ALAMENDED REPORT

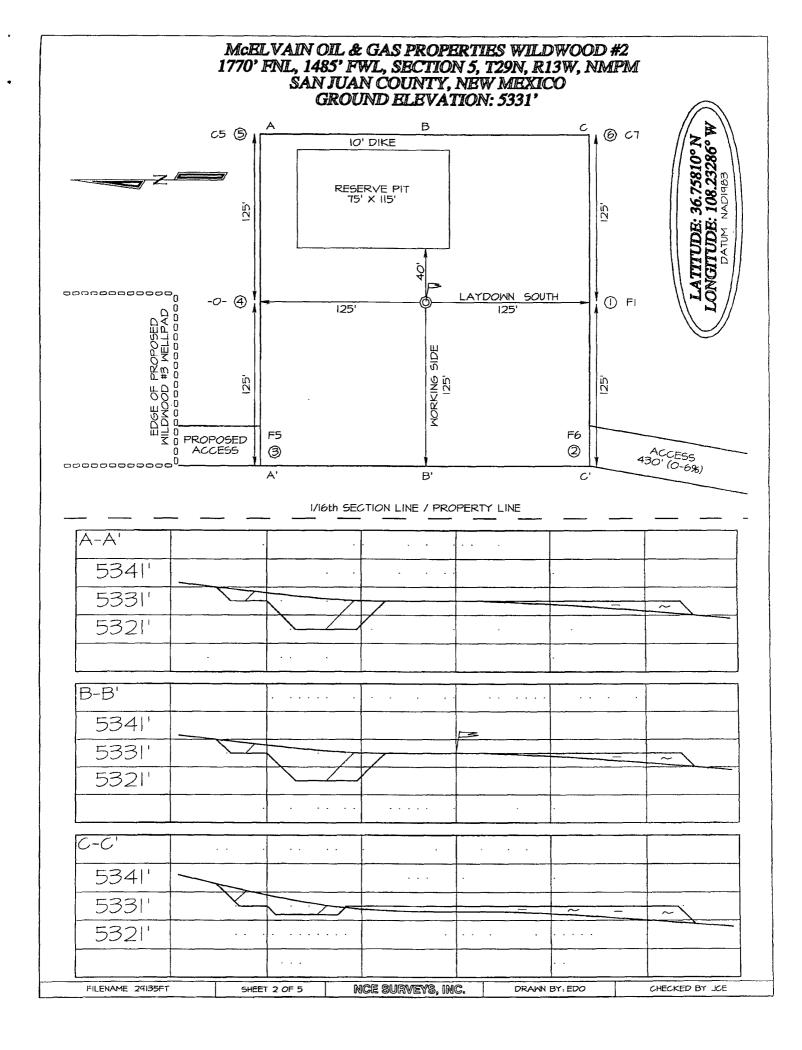
Pool Name

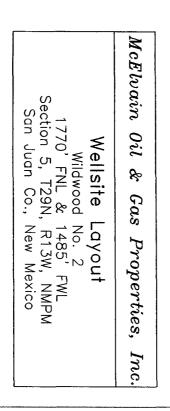
WELL LOCATION AND ACREAGE DEDICATION PLATE

30-04	5-74	1345	71	599	BASIN DAKOTA					
'Property	Code				*Property	Name			€ ME	ell Number
35260		WILDWOOD						2		
'OGRID I	No	*Operator Name				• E	levation			
2204	4	McELVAIN OIL & GAS PROPERTIES						5331		
¹⁰ Surface Location										
UL or lot no	Sect ion	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County
F	5	29N	13W		1770	NORTH	1485	WE	ST	SAN JUAN
¹¹ 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/We	st line	County
12 -					43		15.			
12 Dedicated Acres					¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No			

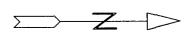
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION





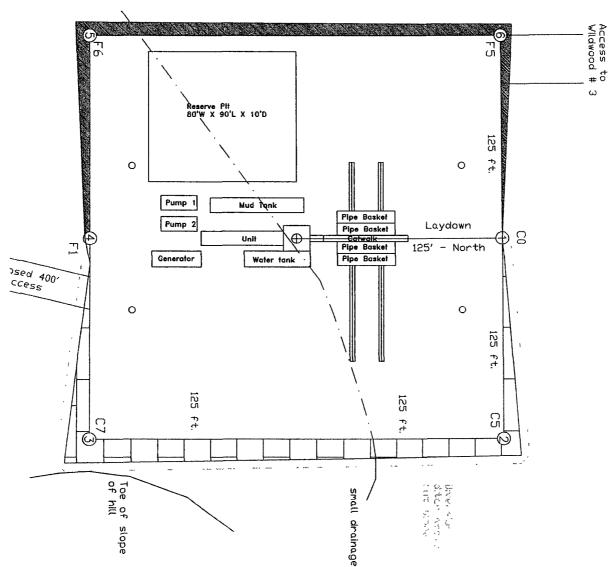


Scale: 1 Inch = 60 feet



Bayless

Archibeque



McElvain Oil & Gas Properties, Inc. Wildwood No. 2 1770' FNL & 1485' FWL Section 5, T29N, R13W, NMPM San Juan County, New Mexico

TEN POINT DRILLING PROGRAM

1. Surface Formation: Ojo Alamo

2. Surface Elevation: 5331'GL.

3. Estimated Formation Tops:

Formation	Top - feet	Expected Production
Ojo Alamo	surface	
Kirtland	495	
Fruitland	885	
Pictured Cliffs	1115	GAS
Lewis	1225	
Intermediate TD	1425	
Cliff House	2625	GAS
Menefee	2765	GAS
Pt. Lookout	3630	GAS
Upper Mancos	3870	
Gallup	4820	GAS
Greenhorn	5585	
Graneros	5635	GAS
Dakota	5770	GAS
TOTAL DEPTH	5955	

4. Surface Hole Program:

Bit: Drill a 124" hole to 500' using a retip mill tooth, IADC Class 115 or 116, bit. WOB: all. RPM: 70 - 100.

Mud: Use a fresh water base spud mud with the following properties:

Interval (ft) Weight (ppg) Ph Vis(sec/qt) Water Loss

0 - 500 8.6 or less 9.0-9.5 40 - 50 No Control

Cusing tobe 84 & 500 \(\Delta\)
Casing and Cementing: A string of 9%" 36# J-55 or K-55 ST&C casing will be set and cemented to the surface in a single stage with 265 sacks of Class "B" cement (yield = 1.18 cf/sk) containing 3% CaCl2 and 1/4 lb/sack celloflake. Slurry volume assumes 100% excess over calculated hole volume. If cement does not circulate to surface, cement will be topped off using 1" pipe down the 124" by 9%" annulus. Minimum clearance between couplings and hole is 0.8125". Prior to drilling out the shoe, casing and BOPE will be tested to a minimum of 600 psig. Safety factors utilized in the design of this casing string were: burst = 1.1; collapse = 1.125; and tension = 1.8.

WOC 12 HOURS. Nipple up 11" 2000# BOPE. Pressure test BOPE to full working pressure using test plug. Drill cement and float to within five feet of shoe. Test surface casing and BOPE to minimum of 600 psig for 15 minutes.

Drilling Program
McElvain Oil & Gas Properties, Inc.
Wildwood No. 2
Page Two

4. Surface Hole Program: - continued

Centralizers: Run three (3) 9%" X 124" regular bowspring centralizers. Install first one on stop ring in middle of shoe joint.

Float Equipment: Cement nose guide shoe run on bottom of first joint. Self fill insert float valve run in top of first joint. Thread lock shoe and connection between first and second joint run.

5. Intermediate Hole Program:

Bit: Drill an 8 %" hole to 1425' using TCI, IADC Class 447 bit. WOB: 35-45K. RPM: 60 - 75.

Mud: Use a fresh water base LSND mud with the following properties:

Interval (ft)	Weight (ppg)	Ph	Vis(sec/qt)	Water Loss
500 - 885	8.6 - 8.8	9.0-9.5	28 - 35	10 - 12
885 - 1425	8.9 - 9.2	9.0-9.5	35 - 50	8 - 10

Fresh water will be used for dilution and building volume. Sufficient materials will be on location at all times to maintain mud properties and to control any lost circulation problem or unforeseen abnormal pressures. The mud volume in the rig pits will be visually monitored and recorded on a routine basis.

<u>Note:</u> Raise **viscosity** to 55 - 60 for logging. Thin to 40 - 45 viscosity to run casing.

pH is to be maintained with lime or caustic soda at the recommended levels to assure drill pipe corrosion protection.

Drispac will be used for control of fluid loss.

Hole will be drilled to top of Fruitland using polymer and drispac additions to water. Mud up before drilling into Fruitland.

<u>Lost Circulation</u> is expected and can occur in the Fruitland Coal and Pictured Cliffs formation. Mud weights should be controlled as low as possible with solids control equipment then as low as practical with water dilution.

Pressure Control: A 2M psi BOP well control system will be utilized. BOP's and choke manifold will be installed and pressure tested to full working pressure using a test plug. Surface casing and BOPE will be tested to a minimum of 600 psig for 15 minutes prior to drilling out from under surface casing. Mechanical operation of pipe rams will be checked daily and blind rams will be checked on each trip out of hole. 7" rams will be installed before running intermediate casing.

A full opening internal blowout preventor or drill pipe safety valve will be on the drill floor at all times and will be capable of fitting all connections.

Drilling Program
McElvain Oil & Gas Properties, Inc.
Wildwood No. 2
Page Three

5. Intermediate Hole Program: - continued

Logging Program: No logs will be run in intermediate hole.

Casing and Cementing Program: No casing will be run unless severe lost circulation is encountered in the Fruitland or Pictured Cliffs interval. If hole conditions dictate running intermediate casing the casing and cementing program will be called in to the BLM office prior to implementation.

Centralizers: None
Float Equipment: None

6. Production Hole Program:

Bits: Drill a 7%" hole to 3900' feet using TCI, IADC Class 447 bits. WOB: 35 - 45K. RPM: 60 - 70. Reduce rpm to 60 - 65 while drilling the Cliff House interval. Use 7%" PDC and 6%" mud motor to drill 3900' to 5700' interval. WOB: 12 - 15K. RPM: 40 - 50 @ rotary, 110 - 120 @ motor. Use TCI, IADC class 637 to finish hole. WOB: 35 - 45. RPM: 60 - 70.

Mud: Use a fresh water based low solids non dispersed system with the following properties:

<u>Interval (ft)</u>	Weight (ppg)	рН	<u>Vis(sec/qt)</u>	Water Loss	
1425 - TD	8.6 - 9.0	9.0-9.5	28 - 40	8 - 10 cc	

Fresh water will be used for dilution and building volume. Sufficient materials will be on location at all times to maintain mud properties and to control any lost circulation problem or unforeseen abnormal pressures. The mud volume in the rig pits will be visually monitored and recorded on a routine basis.

 $\underline{\text{Note:}}$ Raise **viscosity** to 55 - 60 for logging. Thin to 40 - 45 viscosity to run casing.

pH is to be maintained with lime or caustic soda at the recommended levels to assure drill pipe corrosion protection.

Drispac will be used for control of fluid loss.

<u>Lost Circulation</u> can occur in the Pt. Lookout sands. Mud weights should be controlled as low as possible with solids control equipment then as low as practical with water dilution.

Reduce water loss to $6.0\ \mathrm{or}\ \mathrm{lower}\ \mathrm{before}\ \mathrm{drilling}\ \mathrm{into}\ \mathrm{the}\ \mathrm{Lower}\ \mathrm{Mancos}\ \mathrm{interval}.$

Drilling Program
McElvain Oil & Gas Properties, Inc.
Wildwood No. 2
Page Four

6. Production Hole Program: - continued

Pressure Control: A 2M psi BOP well control system will be utilized. BOP's and choke manifold will be installed and pressure tested as outlined in 5 above. Mechanical operation of pipe rams will be checked daily and blind rams will be checked on each trip out of hole. 4½" rams will be installed before running production casing.

A full opening internal blowout preventor or drill pipe safety valve will be on the drill floor at all times and will be capable of fitting all connections.

Logging Program: Dual Induction and Compensated Density/Epithermal Neutron logs from TD to surface casing shoe.

Casing and Cementing Program: Run 4½" 10.5 ppf, J-55 production casing from TD to surface. Cement in a three stages with mechanical DV tools set at $3570' \pm$ and $1425' \pm$. Stage One: (5955' - 3570') Cement with 210 sacks (422.1 cf) of 65/35 Class H POZ containing 5 pps gilsonite and 2 pps celloflake mixed at 12.3 PPG to yield 2.01 cf/sk. Followed with 300 sacks (399.0 cf) of 50/50 Class H POZ with 2% gel, 5 pps gilsonite, 0.25 pps celloflake, .2% FR and .4% FLA mixed at 13.7 PPG to yield 1.33 cf/sk. Stage Two(3570' - 1425'): Cement with 290 sacks (614.8 cf) of 65/35 Class B Poz containing 5 pps gilsonite and 0.25 pps celloflake mixed at 12.1 ppg to yield 2.12 cf/sk. Tail in with 100 sacks (126.0 cf) of Class B containing 2% CaCl2, 5 pps gilsonite and 0.25 pps celloflake mixed at 15.2 ppg to yield 1.26 cf/sk. Stage Three(1425' - surface): Cement with 280 sacks (593.6 cf) of 65/35 Class B Poz containing 5 pps gilsonite and 0.25 pps celloflake mixed at 12.1 ppg to yield 2.12 cf/sk. Tail in with 50 sacks (63.0 cf) of Class B containing 2% CaCl₂, 5 pps gilsonite and 0.25 pps celloflake mixed at 15.2 ppg to yield 1.26 cf/sk.

Circulate and WOC 4 hours between stages.

Slurry volumes assume a 50% excess over gauge hole volume to bring cement back into the intermediate casing. Cement volume is subject to change after review of open hole caliper log to caliper volume + 30%. Minimum clearance between couplings and hole is 1.4375. Safety factors utilized in the design of this casing string were: burst = 1.1; collapse = 1.125; and tension = 1.8.

Centralizers: $9 - 4 \frac{1}{2}$ " X $7\frac{1}{2}$ " regular centralizers will be run across prospective pays of the Gallup and Dakota. $3 - 4\frac{1}{2}$ " X $7\frac{1}{2}$ " turbolizers will be run across the Mesa Verde interval. $3 - 4\frac{1}{2}$ " X $8\frac{1}{2}$ " regular centralizers will be run across the Pictured Cliffs and Fruitland intervals. $2 - 4\frac{1}{2}$ " X $8\frac{1}{2}$ " turbolizers will be spaced so that one is below the base of the Fruitland coal and one is in the Fruitland coal interval.

Drilling Program
McElvain Oil & Gas Properties, Inc.
Wildwood No. 2
Page Five

6. Production Hole Program: - continued

Float Equipment: Cement nose float shoe, 1 joint 4 1/2" casing, and float collar. Two mechanical DV tools with two cement baskets below each DV tool.

7. Auxiliary Equipment:

An upper kelly cock will be utilized. The handle will be available on rig floor at all times

8. Logging Program:

Dual Induction and Epithermal Neutron / Formation Density will be run from TD to surface casing shoe. Bulk density will be presented on a 5 " scale through the coals in the Menefee. Deep induction curve will be merged onto the porosity log.

Coring and Testing Program:

No cores or drill stem tests are planned.

9. Abnormal Pressure:

Although not expected, abnormal pressures are possible in the Fruitland formation.

Estimated Bottom Hole Pressure:

1500 - 2000 psig.

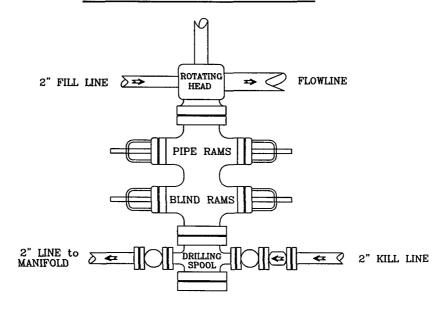
10. Anticipated Starting Date:

August 1, 2007

Duration of Operations: It is estimated a total of 10 days will be required for drilling operations and 10 days for the completion operation.

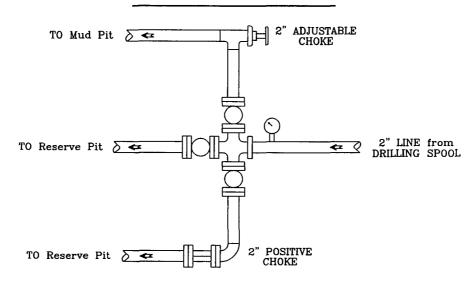
PRESSURE CONTROL

Wellhead Assembly



Preventer and Spools are to have a 6" Bore or larger and a 2000 PSI or higher Pressure Rating

Choke Manifold



McElvain Oil & Gas Properties, Inc.

Wildwood No. 2 1770' FNL - 1485' FWL Section 5, T29N, R13W, NMPM San Juan County, New Mexico