Form 3160-3 (September 2001)				FORM APPROV OMB No. 1004-0 Expires January 3	136	
	NET OF THE INTERSIOR SELAND MANAGEMENT AT	U E OF	1 7	.ease Serial No. NM0207001		
APPLICATION FOR		V 5 AF Enter Receive	6. 1	f Indian, Allotee or Trib	e Name	
la. Type of work:  DRILL	REENTER	FARMING		Unit or CA Agreement,	Name and No.	
lb. Type of Well: Oil Well Gas Well	Other Single Z	one Multiple		ease Name and Well No Hagood No. 3	•	
2. Name of Operator McElvain Oil & Gas P	roperties, Inc.			PI Well No. 30-045-	37.66	
3a. Address 1050 17th Street, Suite 1800 Denver, CO 80265-1801	3b. Phone No. (inch 303.893.093	=	10. Fi	eld and Pool, or Explora Harper Hill Frt Sand	lory	
4. Location of Well (Report location clearly and in	n accordance with any State requirements.*)		11. Se	c., T. R. M. or Blk. and	Survey or Area	
At surface 1330' FSL - 930' F At proposed prod. zone Same	EL, Section 24, T30N, R14W, NM	PM	I	Section 24, T30N, R1	4W, NMPM	
14. Distance in miles and direction from nearest tow.  3.0 miles northwest of Farmington, New	•		L	ounty or Parish San Juan	13. State	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)  930	16. No. of acres in 595.65	ı lease	17. Spacing Unit of SE/4 - 146.3	ledicated to this well  9 acs.		
18. Distance from proposed location* to nearest well, drilling, completed,	19. Proposed Dept	h	20. BLM/BIA Bor	BLM/BIA Bond No. on file		
applied for, on this lease, ft. 160	1709'		LPM413822	3		
<ol> <li>Elevations (Show whether DF, KDB, RT, GL, 5597' GL</li> </ol>	· · ·	late work will start /30/2004		Estimated duration 10 days		
	24. Attachme	nts				
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on Natio SUPO shall be filed with the appropriate Forest States.)</li> </ol>	nal Forest System Lands, the 5.	Bond to cover the Item 20 above). Operator certification	e operations unles tion pecific information	ss covered by an existin n and/or plans as may b	-	
25. Signature Robert E. F.	Name (Prin	ted/Typed) rt E. Fielder		Date 1	1/04/2004	
Title Agent						
Approved by (Signature)	Name (Prin	ted/Typed)	lours an	Date	2/15/	
Title A fine AFM	Office '	FFO				
Application approval does not warrant or certify tha	t the applicant holds legal or equitable	title to those rights	in the subject leas	se which would entitle th	e applicant to	

\*(Instructions on page 2)



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

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

District III 1000 Rio Brazos Rd., Aztec, NM 87410

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

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back

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

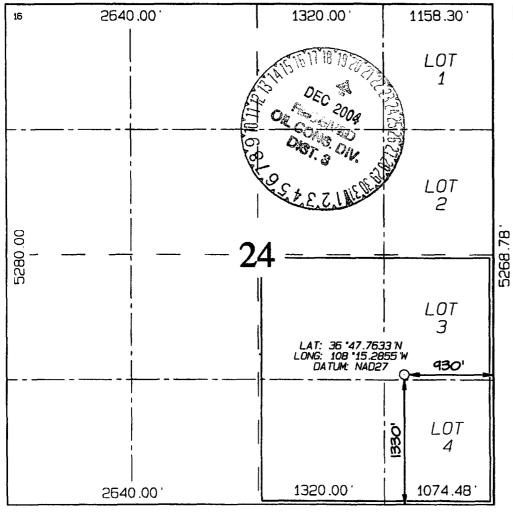
OIL CONSERVATION DIVISION PO Box 2088 Santa Fe. NM 87504-2088

AMENDED REPORT 2004 NOV 5 AM 11 23

RECEIVED WELL LOCATION AND ACREAGE PENTICATION PLAT

¹AP	I Number		*Poo1	Code	e Pool Name					
30-04	5-3	78160 HARPER HILL FRUITLAND SAND PICTL				D PICTUR	RED I	CLIFFS		
*Property	Code	*Property Name					Well Number			
2912	5	HAGOOD						3		
OGRID 1	10.				*Operator	Name			*Elevation	
2204	4	McELVAIN OIL & GAS PROPERTIES						5597 '		
<sup>10</sup> Surface Location										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West	line	County
I	24	30N	14W		1330	SOUTH	930	EAS"	τ	SAN JUAN
<sup>11</sup> 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
<sup>12</sup> Dedicated Acres		.39 Acr	es - Sl	I E/4	<sup>33</sup> Joint or Infill	<sup>34</sup> Consolidation Code	<sup>35</sup> Order No.			<u>L</u>
		71 . DE	1007015			0.4				

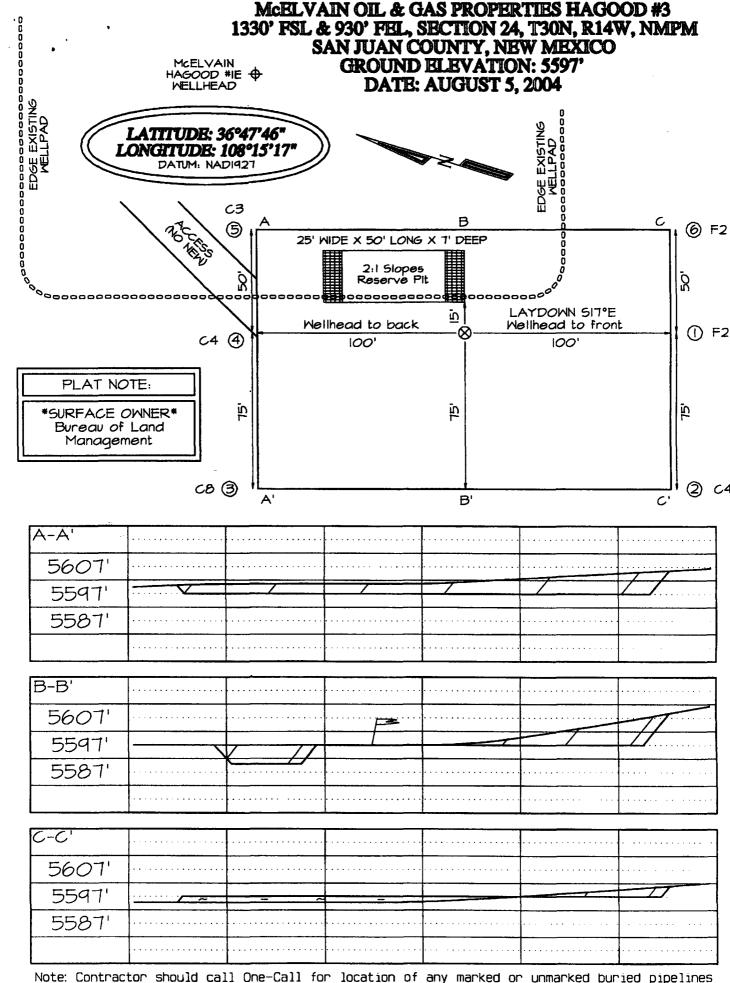
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



" OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete
to the best of my knowledge and belief
1/1/26 8 6 7-1/1
Signature
I
Robert E. Fielder
Printed Name
Agent Title
1
November 4, 2004
"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.
Date of Survey: AUGUST 5, 2004
Signature and Seal of Professional Surveyor
C FO
STAN C. EDWARDS
SPORT MEXICOLO
1 / 24/ /0/ /
(15269) ) 度
TOZOS DE LA CONTRACTOR
1 18 /3
AGESTOWN.
<del>-7</del>

Certificate Number

15269



Note: Contractor should call One-Call for location of any marked or unmarked buried pipelines or cables on well pad and/or access road at least two (2) working days prior to construction

# McElvain Oil & Gas Properties, Inc. Hagood No. 3 1330' FSL & 930' FEL Section 24, T30N, R14W, NMPM San Juan County, New Mexico

#### TEN POINT DRILLING PROGRAM

1. Surface Formation: Ojo Alamo

2. Surface Elevation: 5597'GL.

#### 3. Estimated Formation Tops:

Formation	Top - feet	Expected Production
Ojo Alamo	surface	
Kirtland	669	
Fruitland	1149	GAS
Pictured Cliffs	1349	GAS
Lewis	1509	
TOTAL DEPTH	1709	

#### 4. Surface Hole Program:

Bit: Drill an  $8\frac{3}{4}$ " hole to 200' 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:

<pre>Interval (ft)</pre>	Weight (ppg)	<u>Ph</u>	Vis(sec/qt)	Water Loss
0 - 200	8.6 or less	9.0-9.	5 40 - 50	No Control

Casing and Cementing: A string of 7" 20 ppf J-55 or K-55 ST&C casing will be set and cemented to the surface in a single stage with 50 sacks (59.0 cf) of Class "B" cement (yield = 1.18 cf/sk) containing 3% CaCl<sub>2</sub> 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 8%" by 7" annulus. Minimum clearance between couplings and hole is 0.5470". 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 or 100,000 lb overpull, whichever is greater.

WOC 12 HOURS. Nipple up 7 1/16" 2000# BOPE. Pressure test surface casing and BOPE to 600 psi for 15 minutes.

Centralizers: Run two (2) 7" X 8%" regular bowspring centralizers. Install first one on stop ring in middle of shoe joint.

Float Equipment: Cement nose guide shoe thread locked. Also thread lock connection between first and second joint run.

Drilling Program
McElvain Oil & Gas Properties, Inc.
Hagood No. 3
Page Two

#### 5. Production Hole Program:

Bit: Drill a 64" hole to 1709' using a TCI, IADC Class 447 bit. WOB: 30-35K. RPM: 60 - 75. Hold RPM at 55 - 65 through Ojo Alamo.

Mud: Use a fresh water base polymer and water system to drill this section. If hole conditions dictate, mud up with a fresh water base LSND mud with the following properties:

<pre>Interval (ft)</pre>	Weight (ppg)	Ph	Vis(sec/qt)	Water Loss
200 - 1709	8.6 - 8.8	9.0-9.5	28 - 35	10 - 12

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 surface pit will be visually monitored and recorded on a routine basis.

Note: If mud up is required, 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 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 a minimum of 600 psig before 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. 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 Neutron/Formation Density logs will be run from TD to the surface casing shoe.

Casing and Cementing Program: Run 4½" 10.5 ppf J-55 production casing from surface to TD and cement in a single stage with 70 sacks (178.5 cf) of Class B containing 3% sodium metasilicate extender, 5 pps Gilsonite and 1/4 pps celloflake. Lead slurry mixed at 11.8 PPG to yield 2.55 cf/sk. Tail in with 75 sacks (88.5 cf) of Class B with 0.25 pps celloflake, 0.3% FLA and 5 pps gilsonite mixed at 15.6 PPG to yield 1.19 cf/sk.

Drilling Program
McElvain Oil & Gas Properties, Inc.
Hagood No. 3
Page Three

#### 5. Production Hole Program: -continued

Slurry volumes assume a 50% excess over gauge hole volume to circulate to surface. Minimum clearance between couplings and hole is 0.6250". Safety factors utilized in the design of this casing string were: burst = 1.1; collapse = 1.125; and tension = 1.8 or 100,000 lb over pull, whichever is greater.

Centralizers: 5-4%" X 6%" bowspring centralizers will be run across all prospective pays and 3-4%" X 6%" turbolizers will be spaced such that one (1) is just below the base of the Fruitland coal, one just below the base of the Ojo Alamo and one (1) in the Ojo Alamo.

Float Equipment: Cement nose guide shoe, 1 joint 4½" casing, and float collar.

#### 6. Auxiliary Equipment:

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

#### 7. Logging Program:

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

#### Coring and Testing Program:

No cores or drill stem tests are planned.

#### 8. Abnormal Pressure:

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

#### Estimated Bottom Hole Pressure:

250 - 300 psig.

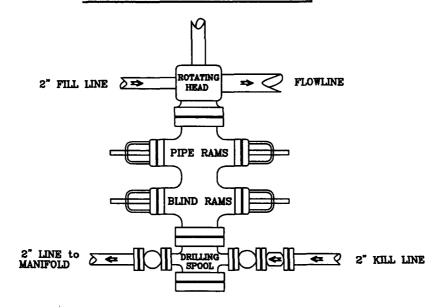
#### 9. Anticipated Starting Date:

November 30, 2004

**Duration of Operations:** It is estimated a total of 6 days will be required for drilling operations and 5 days for the completion operation.

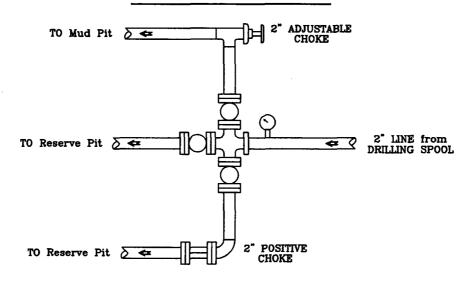
## PRESSURE CONTROL

## 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.

Hagood No. 3 1330' FSL - 930' FEL Section 24, T30N, R14W, NMPM San Juan County, New Mexico