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

• State of New Mexico Energy Minerals and Natural Resources

Form C-101 May 27, 2004

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit to appropriate District Office

MEN	DED R	FPORT

			Operator Name	and Addres	26	CIVIER, D		22044	OGRID 1	Number	
McElvain Oil & Gas Properties, Inc. 1050 17th Street, Suite 1800 Denver, CO 80265-1801					30 - 045 - 33299				umber 299		
340	rty Code 24		- · · · · · · · · · · · · · · · · · · ·		Property Sadie			° Well No.			
° Proposed Pool I Basin Fruitland Coal								10 Prop	osed Pool 2		
		Da	ISM Tuniana Coa		⁷ Surface	Location					
JL or lot no.	Section 8	Township 30N	vnship Range Lot Idn Feet			om the North/South line Feet		Feet from the 800	East/West West	1	
М		3014	L	and Potte	om Hole Locat				West	. San Juan	
JL or lot no.	Section	Township	Range	Lot I			outh line	Feet from the	East/West	t line County	
		\	<u> </u>		1:4:1 337-	11 T. C					
¹¹ Work	Type Code		12 Well Type Co		ditional We	/Rotary		Lease Type Code		15 Ground Level Elevation	
16 M	N Multiple		G 17 Proposed Depth		R 18 Formation Lewis		¹⁹ Contractor ²⁰ Sp		5597' 20 Spud Date		
Depth to Grou	N Indwater		2333'	Distance	from nearest fres		L	D&D Service Distance from	n nearest sur	November 1, 2005	
		<u> </u>	1. 4: 1						The second second		
	Synthetic		ils thick Clay [_] Pit Volu	ıme:bbls		ng <u>Method:</u>	_	pased 🗍 G	Son/Air [
Close	d-Loop Sys	ieiii A	2	Propos	od Cosing o		Drogram		based [] O	JASYAIF []	
					ed Casing a			ı			
				Setting D		Sacks of Cement		Estimated TOC			
	2.250" 8.625" 7.875" 5.500"		24 200 15.5 233			310		Surface surface			
1.0.1.		1.	74.47		1					Surface	
-											
Describe th	e proposed	nrogram If	this application	s to DEEPE	N or PLUG BAC	K give the data	on the prese	ent productive zone	and propos	sed new productive zone.	
Describe the borill 12 ¼" he BOPE. Pres roduction cates asing to 3500 this well is could fluids will peration. Dri	plowout pre- ple to 200' is sure test sur- sing in a sir o psig for 30 o-located w be retained lling fluid l	vention progusing fresh w rface casing a ngle stage with 0 minutes. Pe ith the XTO I in steel abovi iquid phase a	ram, if any. Use vater mud system, and BOPE to mir th cement returns erforate select Fruit - Aztec No. 8 we we ground tanks, and produced walks.	additional si Run and ce imum of 60 to surface. I itland Coal Il on So. Oli Drill cutting er will be ha	heets if necessary ment surface casi 0 psig for 15 min Move out drilling intervals and stim ver and Western is and mud solids	ng in a single star utes. Drill 7 7/8" rig. Move in con ulate using a 2% Drive. There will will be hauled to reial disposal faci	ge with cen hole to TD upletion equ KCl based be no pits of a commerce lity during	nent returns to surfa- using fresh water r uipment. Run cased system. See attach or impoundments f cial disposal facility the life of the well.	ace. WOC 1: mud system. I hole correled drilling p for storage of upon comp	2 hours. Nipple up 11" 2000. Log well. Run and cement lation logs. Pressure test program for specific details. f drilling or product of Tiple pletion of the trilling	
	dge and bel	ief. I further to NMOCD	given above is tr r certify that the guidelines , a	drilling pi	t will be	Approved by:	OIL C	ONSERVAT	TION DI	OR	
	alternativ	e OCD-app	i oveu pian					- / //will		- Cata	
onstructed a			Robut	F. Fu	l.l.	Title: DEPUT	OH & G		DIST. &!)	
onstructed a n (attached)			Robut	f. Fu	lh	Title: DEPUT § Approval Date:	OHL & G		DIST. (3))	
onstructed an (attached) rinted name: itle: Agent	Robert E. I		Robert	f. Fu	Pde		0 0 0)	

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

320.0 Acres - 5/2

Dedicated Acres

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

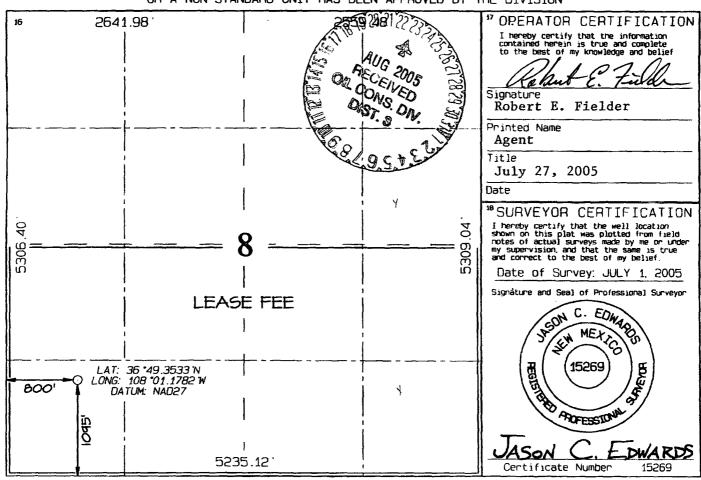
*AF	'I Number			629	BASIN FRUITLAND COAL							
*Property	Code				*Property Name SADIE					Well Number 2		
'0GAIO 2204			*Operator Name McELVAIN OIL & GAS PROPERTIES					*Elevation 5597				
	¹⁰ Surface Location											
UL or lot no.	Sect ion	Township	Range	Lat Idn	Feet from the	North/South line	Feet from the	East/We	st line	Cox	Unity	
м	8	30N	11W		1095	SOUTH	800	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/Ne	st line	Con	unty	
	t											

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

¹⁴ Consolidation Code

⁶⁵ Order No.

Joint or Infill



McElvain Oil & Gas Properties, Inc. Sadie No. 2 1095' FSL & 800' FWL Section 8, T30N, R11W, NMPM San Juan County, New Mexico

TEN POINT DRILLING PROGRAM

- 1. Surface Formation: Nacimiento
- 2. Surface Elevation: 5597'GL.

3. Estimated Formation Tops:

Formation	Top - feet	Expected Production
Nacimiento	surface	
Ojo Alamo	463	
Kirtland	583	
Farmington	1483	
Fruitland	1723	
Pictured Cliffs	1983	GAS
Lewis	2183	
TOTAL DEPTH	2333	

4. Surface Hole Program:

Bit: Drill an 124" 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:

Interval (ft)	Weight (ppg)	Ph 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 8%" 24 ppf J-55 or K-55 ST&C casing will be set and cemented to the surface in a single stage with 140 sacks (165.2 cf) 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 12½" by 8%" annulus. Minimum clearance between couplings and hole is 1.3125". 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 surface casing and BOPE to 600 psi for 15 minutes.

Centralizers: Run two (2) 8%" X 124" 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.
Sadie No. 2
Page Two

5. Production Hole Program:

Bit: Drill a $7\frac{1}{6}$ " hole to 2333' using a TCI, IADC Class 447 bit. WOB: 30-35K. RPM: 60 - 75. Reduce RPM to 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:

Interval (ft)	Weight (ppg)	<u>Ph</u>	Vis(sec/qt)	Water Loss
200 - 2333	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 5½" 15.5 ppf J-55 production casing from surface to TD and cement in a single stage with 175 sacks (446.25 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 135 sacks (160.65 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.
Sadie No. 2

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 0.9125". Safety factors utilized in the design of this casing string were: burst = 1.1; collapse = 1.125; and tension = 1.8.

Centralizers: $5 - 5\frac{1}{2}$ " X $7\frac{1}{2}$ " bowspring centralizers will be run across all prospective pays and $2 - 5\frac{1}{2}$ " X $7\frac{1}{2}$ " turbolizers will be spaced such that one (1) is just below the base of the Ojo Alamo and one (1) in the Ojo Alamo.

Float Equipment: Cement nose guide shoe, 1 joint 5½" 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:

750 - 1000 psig.

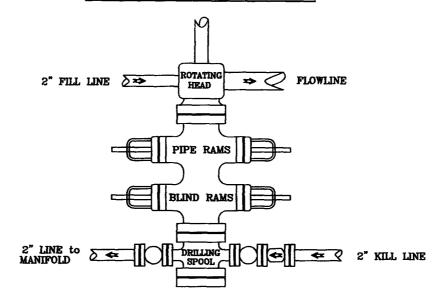
9. Anticipated Starting Date:

November 1, 2005

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

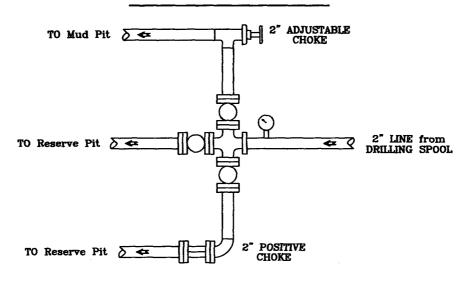
PRESSURE CONTROL

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.

Sadie No. 2 1095' FSL - 800' FWL Section 8, T30N, R11W, NMPM San Juan County, New Mexico