Form 3160-3 (September 2001)

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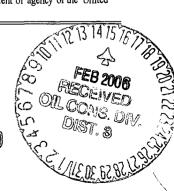
FORM APPROVED OMB No. 1004-0136 Expires January 31, 2004

LINITED STATES	none IRM I annu	L 0	Expires failurity 5	1, 2004	
UNITED STATES DEPARTMENT OF THE I	NTERIOR		5. Lease Serial No. NM97826	-	
BUREAU OF LAND MAN. APPLICATION FOR PERMIT TO I	dui^rt ôb t èéénte u 103 agement BECF1A ed		6. If Indian, Allotee or Trib	e Name	
la. Type of work: DRILL REENTE			7 If Unit or CA Agreement, NMNM/00		
Ib. Type of Well: Oil Well Gas Well Other	✓ Single Zone Multip	le Zone	8. Lease Name and Well No Elk Com No. 1C	6660	
2. Name of Operator McElvain Oil & Gas Properties, Inc.	22044		9. API Well No. 30 -039-2	***	
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 Explora Blanco Mesa Verde		
4. Location of Well (Report location clearly and in accordance with an	· ·		11. Sec., T. R. M. or Blk. and	Survey or Area	
At surface 2435' FNL - 965' FWL, Section 3, T At proposed prod. zone Same	25N, R2W, NMPM		E Section 3, T25N, R2	W, NMPM	
14. Distance in miles and direction from nearest town or post office* Eight miles northwest of Lindrith, NM			12. County or Parish Rio Arriba	13. State NM	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 965	16. No. of acres in lease		Unit dedicated to this well 20.97 acs		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 6346'		/BIA Bond No. on file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 7617' GL	22 Approximate date work will star 01/01/2006	rt*	23. Estimated duration 25 days	- Ju	
	24. Attachments		•		
The following, completed in accordance with the requirements of Onsho	re Oil and Gas Order No.1, shall be a	ttached to this	s form:		
 Well plat certified by a registered surveyor. A Drilling Plan. 	4. Bond to cover t Item 20 above).	he operation	s unless covered by an existing	ng bond on file (see	
 A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office). 		specific info	rmation and/or plans as may b	e required by the	
25. Signature Lebut E. Fulde	Name (Printed/Typed) Robert E. Fielder		Date 2	1/10/06	
Title Agent				. 1	
Approved by (Signature) Manices (257	Name (Printed/Typed)		Date	/13/0	
Title AFM	Office FFO				
Application approval does not warrant or certify that the applicant hole conduct operations thereon. Conditions of approval, if any, are attached.	ds legal or equitable title to those righ	nts in the subj	ect lease which would entitle t	he applicant to	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a c States any false, fictitious or fraudulent statements or representations as	crime for any person knowingly and to any matter within its jurisdiction.	willfully to m	ake to any department or ager	ncy of the United	
				250 11°15	

*(Instructions on page 2)

This action is subject to technical and procedural review pursuant to 43 CFR 3165 3 and appeal pursuant to 43 CFR 3165 4

NWOCD



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

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994

Instructions on back Submit to Appropriate District Office

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

OIL CONSERVATION DIVISION PO Box 2088

State Lease - 4 Copies Fee Lease - 3 Copies

1000 Rio Brazos Rd., Aztec, NM 87410

Santa Fe, NM 87504-2088

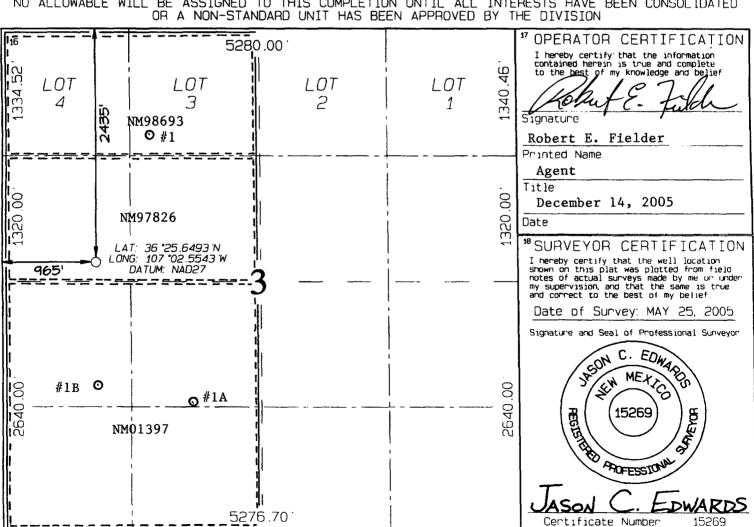
2005 JAN 12 PM 4 AMENDED REPORT

PO Box 2088, Santa Fe, NM 87504-2088

RECEIVED WELL LOCATION AND ACREAGE DEDUCATION IPLATE THE

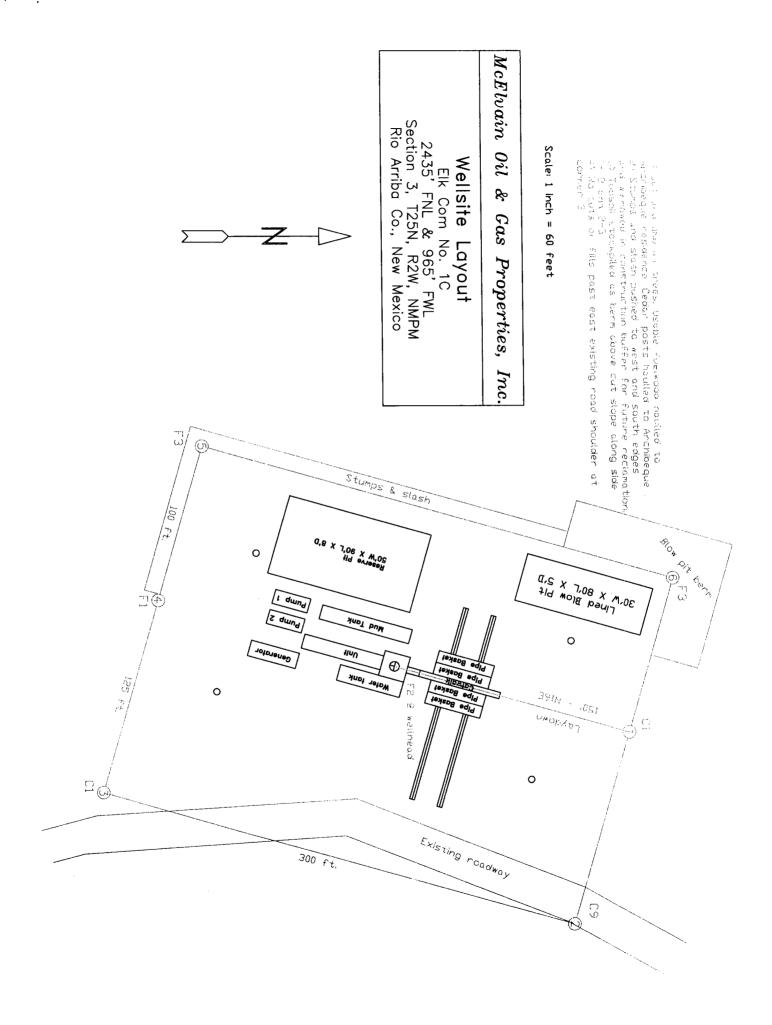
'AP	Number		°P o o1	Code	Pool Name					
30-039	- 297	747	723	319	BLANCO-MESAVERDE -					
*Property	Code			,	*Property	*Property Name				
6660					ELK (ELK COM				
'OGRID N	lo.				*Operator	*Operator Name *Elo				
2204	4			McELVA	IN OIL & GAS PROPERTIES 7617				7617' ~	
¹⁰ Surface Location										
UL or lat no.	Sect ion	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West lin	e County A	
E	3	25N	2M		2435	NORTH	965	WEST	ARRIBA	
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/West lin	ne County	
!										
12 Oedicated Acres					¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.			
	32(J.97 Acr	res - W	1/2	Y	C				

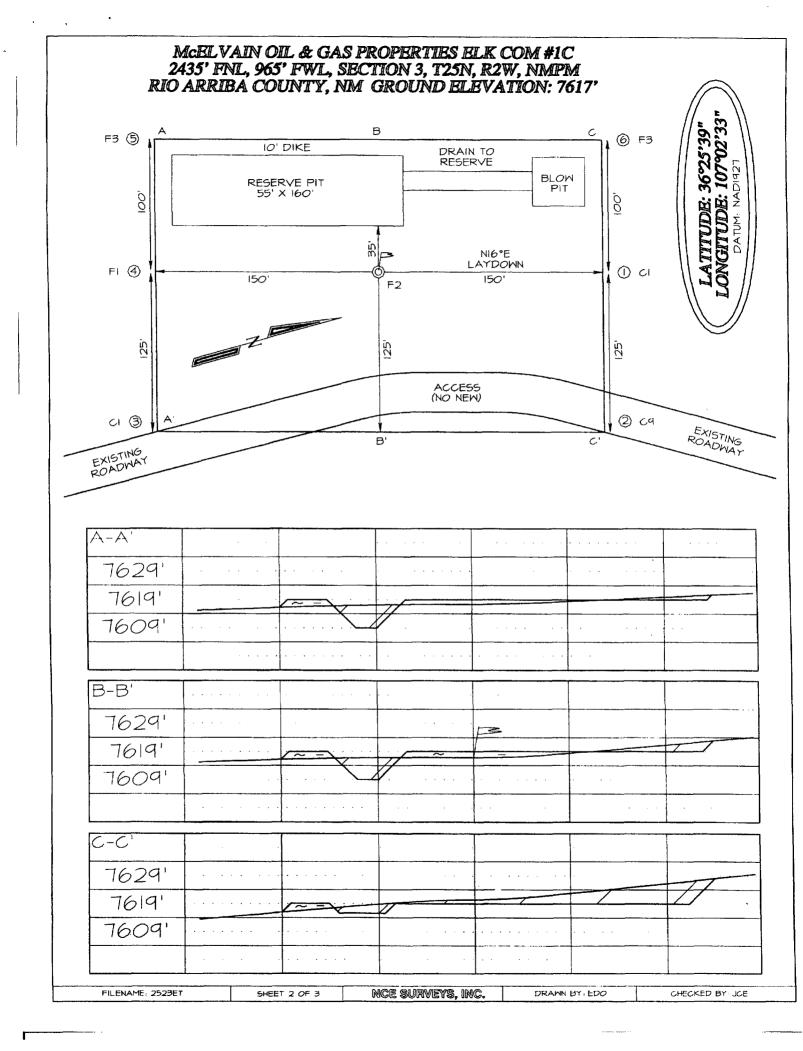
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



Office	New Mexico	Form C-103 May 27, 2004
1625 N. French Dr., Hobbs, NM 88240	and Natural Resources	WELL API NO - 29747
1301 W. Grand Ave., Artesia, NM 88210 OIL CONSER District III 1220 South	VATION DIVISION n St. Francis Dr.	5. Indicate Type of Lease STATE FEE
1220 S. St. Francis Dr., Santa Fe, NM	e, NM 87505	6. State Oil & Gas Lease No.
87505 SUNDRY NOTICES AND REPORTS O		7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEE DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FOR PROPOSALS.)		Elk Com
1. Type of Well: Oil Well Gas Well X Other		8. Well Number 1C
2. Name of Operator		9. OGRID Number
McElvain Oil & Gas Properties, Inc. 3. Address of Operator		22044 10. Pool name or Wildcat
1050 17 th Street, Suite 1800, Denver, CO 80265-1801		Blanco Mesa Verde
4. Well Location		
Unit Letter <u>E</u> : <u>2435</u> feet from the	North line and 9	65 feet from the West line
Section 3 Township 25		MPM Rio Arriba County
7617' GL	hether DR, RKB, RT, GR, etc.	
Pit or Below-grade Tank Application X or Closure		7200 (1000
Pit type <u>Drilling</u> Depth to Groundwater >100 ft Distance from ne		
Pit Liner Thickness: 12 mil Below-Grade Tank:		Construction Material
12. Check Appropriate Box to I	ndicate Nature of Notice,	Report or Other Data
NOTICE OF INTENTION TO:	SUB	SEQUENT REPORT OF:
PERFORM REMEDIAL WORK PLUG AND ABANDOI		
TEMPORARILY ABANDON		ILLING OPNS. P AND A
PULL OR ALTER CASING MULTIPLE COMPL	☐ CASING/CEMEN	T JOB 🔲
OTHER: Construct Drilling reserve pit	X OTHER:	П
13. Describe proposed or completed operations. (Clear		nd give pertinent dates, including estimated date
of starting any proposed work). SEE RULE 1103.	For Multiple Completions: A	ttach wellbore diagram of proposed completion
or recompletion.		an aris in a continuo sali an araista she la casi an
McElvain Oil & Gas Properties, Inc. requests a permit to cor construction. Pits will be constructed in accordance with NM		
Layout. Pits will be closed within six months of cessation of		rocation are shown on the attached we have
•	•	
I hereby certify that the information above is true and compl grade tank has been/will be constructed or closed according to NMOCI		
SIGNATURE Hallat & fulde	TITI E Acont	DATE EVIOLOG
SIGNATURE PLANTS CO PARTY	_TITLE _Agent	DATE 12165
Type or print name Robert E. Fielder For State Use Only	E-mail address: pmci@acs-	online.net Telephone No. (505)632.3869

APPROVED BY: Conditions of Approval (if any):





McElvain Oil & Gas Properties, Inc. Elk Com No. 1C 2435' FNL & 965' FWL Section 3, T25N, R2W, NMPM Rio Arriba County, New Mexico

TEN POINT DRILLING PROGRAM

- 1. Surface Formation: San Jose
- Surface Elevation: 7617'GL.

3. Estimated Formation Tops:

Formation	Top - feet	Expected Production
Nacimiento	1946	
Ojo Alamo	3446	
Fruitland	3696	
Pictured Cliffs	3816	GAS
Lewis	4046	
Intermediate TD	4246	
Huerfanito	4311	
Chacra	4811	
Cliff House	5531	GAS
Menefee	5646	GAS
Pt. Lookout	5946	GAS
Upper Mancos	6196	
TOTAL DEPTH	6346	

4. Surface Hole Program:

Bit: Drill a 12 1/4" hole to 300' 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 - 300	8.6 or less	9.0-9.5 40 - 50	No Control

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 160 sacks of Class "B" cement (yield = 1.18 cf/sk) containing 3% CaCl₂ and 0.25 pps 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 95% 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 surface casing and BOPE to 600 psi for 15 minutes.

Drilling Program
McElvain Oil & Gas Properties, Inc.
Elk Com No. 1C
Page Two

4. Surface Hole Program: - continued

Centralizers: Run three (3) 9%" X 12 1/4" 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 4246' using TCI, IADC Class 447 bit. WOB: 35-45K. RPM: 60 - 75. Reduce RPM to 55 - 65 through Ojo Alamo.

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

Interval (ft)	Weight (ppg)	<u>Ph</u>	Vis(sec/qt)	Water Loss
300 - 3696	8.6 - 8.8	9.0-9.5	28 - 35	10 - 12
3696 - 4246	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.

 $\underline{\text{Note:}}$ 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.

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.

Drilling Program
McElvain Oil & Gas Properties, Inc.
Elk Com No. 1C
Page Three

5. Intermediate 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 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. 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.

Logging Program: No logs will be run in this section

Casing and Cementing Program: Run 7" 20# J-55 production casing from surface to Intermediate TD and cement in 2 stages with a mechanical DV tool installed ± 2123'. Stage 1 (4246' - 2123') will be cemented with 170 sacks (360.4 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 with 2% CaCl₂, 5 pps gilsonite and 0.25 pps celloflake mixed at 15.2 ppg to yield 1.26 cf/sk. Stage 2 (2123' - surface) will be cemented with 200 sacks (424.0 cf) of 65/35 Class B Poz with 5 pps gilsonite and 0.25 pps celloflake mixed at 12.1 PPG to yield 2.12 cf/sk. Follow with 50 sacks (63.0 cf) of Class B with 2% CaCl₂, 5 pps gilsonite and 0.25 pps celloflake mixed at 15.2 PPG to yield 1.26 cf/sk.

Circulate and WOC between stages for four (4) hours.

Slurry volumes assume a 50% excess over gauge hole volume. Minimum clearance between couplings and hole is 0.5470". Safety factors utilized in the design of this casing string were: burst = 1.1; collapse = 1.125; and tension = 1.8.

WOC 12 HOURS from plug down on first stage. Pressure test intermediate casing and BOPE to 1500 psi for 15 minutes.

Centralizers: 10 - 7" X 8%" bowspring centralizers will be run across all prospective pays and 5 - 7" X 8%" turbolizers will be spaced such that one (1)is just below the Basal Fruitland Coal, two (2)across base of Ojo Alamo, and two (2) across base of Nacimiento.

Float Equipment: Cement nose float shoe, 1 joint 7" casing, float collar, and 1 - mechanical DV tool with 2 cement baskets below the DV.

Drilling Program
McElvain Oil & Gas Properties, Inc.
Elk Com No. 1C
Page Four

6. Production Hole Program:

Bits: Drill a 6 1/4" hole to 6346' feet using air hammer. WOB: 5 - 25K. RPM: to be determined by drilling conditions. If hole gets wet use TCI, IADC class 637 to finish hole.

Mud: Air from Intermediate casing shoe to TD. If hole gets wet use a fresh water based low solids non dispersed system with the following properties: **Note**: Pull into intermediate casing to mud up.

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

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 1500 psig before drilling out from under intermediate casing. Mechanical operation of pipe rams will be checked daily and blind rams will be checked on each trip out of hole. 4 1/2" 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: Gamma Ray Induction and Compensated density/Epithermal neutron logs from TD to intermediate casing shoe. Merge deep induction curve onto porosity logs. Pull gamma ray log to surface for correlation purposes.

Casing and Cementing Program: Run 4 ½" 10.5# J-55 production liner from TD to 120 feet into intermediate casing. Cement in a single stage with 130 sacks (261.3 cf) of 65/35 Class H Poz containing 5 pps gilsonite and 0.25 pps celloflake mixed at 12.3 PPG to yield 2.01 cf/sk. Followed with 100 sacks (133.0 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.

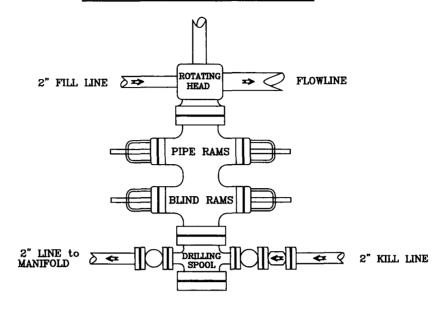
Slurry volumes assume a 70% excess over gauge hole volume to bring cement back into the intermediate casing. Cement volume is subject to change after review of open hole caliper log to caliper volume + 30%. Minimum clearance between couplings and hole is 0.625". Safety factors utilized in the design of this casing string were: burst = 1.1; collapse = 1.125; and tension = 1.8.

Centralizers: 7 - 4%" X 6%" rigid centralizers will be run across prospective pays of the Mesa Verde.

Float Equipment: Cement nose float shoe, 1 joint 4 1/2" 10.5 # casing, and plug landing collar. TIW $4\frac{1}{2}$ " X 7" liner hanger.

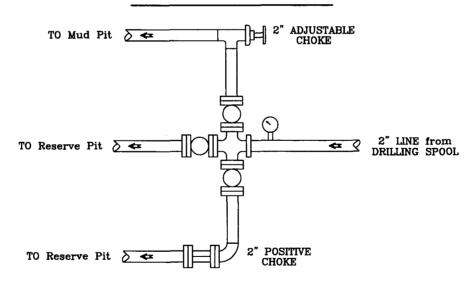
PRESSURE CONTROL

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.

Elk Com No. 1C 2435' FNL - 965' FWL Section 3, T25N, R2W, NMPM Rio Arriba County, New Mexico