. <b>D</b> Ľ	UNITED STATE	S	Le Berning		Find P	FORM APPROVED DMB No. 1004-0137
BUF	REAU OF LAND MAN	AGEMENT	DEC	24 20	Ex St. L. case. Serial No.	pires: October 31, 2014
SUNDRY	NOTICES AND REPO	RTS ON W	ELLS THE DE	n Field	6 all Indian, Allottee of	r Tribe Name
Do not use this abandoned well.	form for proposals to Use Form 3160-3 (Al	o drill or to PD) for suc	re-enter án, h proposals	nd i lan	Nameni	
SUBM. 1. Type of Well	IT IN TRIPLICATE Other	instructions on	page 2.		7. If Unit of CA/Agree N/A	ment, Name and/or No.
Oil Well Gas	Well Other	· · · · · · · · · · · · · · · · · · ·			8. Well Name and No. Lybrook J31-2307 0	1H
2. Name of Operator Encana Oil & Gas (USA) Inc.				9. API Well No. 30-043-21214		
3a. Address         3b. Phone No. (include of 505-599-2411			include area code	)	10. Field and Pool or I Alamito-GALLUP	Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SHL: 2215'FSL and 2531'FEL Section 31, T23N, R7W BHL: 2217'FSL and 2288'FEL Section 36, T23N, R8W					11. County or Parish, S Sandoval County, I	State NM
12. CHE	CK THE APPROPRIATE BO	X(ES) TO INDI	CATE NATURE	OF NOTIC	CE, REPORT OR OTHI	ER DATA
TYPE OF SUBMISSION			Түр	E OF ACT	ION	
Notice of Intent	Acidize	Deepe Fractu	n re Treat	Prod	uction (Start/Resume) munation	Water Shut-Off Well Integrity
Subsequent Report	Casing Repair	New C	Construction	Reco	mplete	Other Install cathodic
Final Abandonment Notice	Change Plans	Plug a	nd Abandon	Temp	porarily Abandon	protection
Encana Oil & Gas (USA) Inc. Enca location at the meter run, layout dri	na is requesting to install ca lling procedure and Plug an	athodic protecti d abandon pro	on on the Lybro cedure is attach	ok J31-23 red.	807 01H to be attache	ed to the Chaco trunk pipeline on
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### **CORRPRO - DEEP ANODE BED PROCEDURE**

Permits: Corrpro will assist the Company in applications for well drilling permits required by any City, County and/or State agencies.

Field Location: Location of the deep anodes are approximate. Exact placement shall be d etermined and verified in the field by the Corrpro foreman and the Company representative.

Anode Hole Drilling: The anode hole shall be 7 7/8-inches diameter to the depth shown on the Drawings (top 20-feet shall be drilled to accommodate 8" casing). Drilling shall be ac complished with rotary bit. Driller shall use standard techniques (i.e. trough and v acuum truck) to capture and contain the drilling fluids, mud and cuttings at the top of the hole. The driller shall select the type and consistency of drilling fluids to be consistent with soil characteristics. The drilling rig shall be leveled to provide a round, straight and plumb anode hole.

Casing: Install a 8" diameter casing to a depth of 20-feet.

Anode Hole Geological Logs: As the hole is drilled, the driller shall maintain a record describing the depth and type of the geological formations encountered. Copies of the log shall be submitted.

Anode Hole Resistance Log: Record electric log of the hole using one of the anodes. The anode lead wire shall be manually lowered into hole, with a counter reel, while taking measurements every 5 feet. The anode lead wire shall be marked for a distance equaling or exceeding the maximum anticipated depth of the hole. As the anode is lowered into the hole, measure the resistance by temporarily impressing a minimum of 12-volts DC between the anode and a very well grounded structure. A volt meter shall be used to perform this test. A recommended 12-volt DC power source is a he avy-duty, lead acid, automobile battery. Lower the anode into the hole and at ten-foot increments, hold in place while the voltage and current output of the DC current source are measured and recorded. This information shall be recorded and submitted.

Vent Pipe Installation: The vent pipe (1-inch Allvent to the top of the coke breeze column) shall be installed in the hole with the first anode. One-inch PVC non-perforated pipe will be installed from the top of the coke breeze column to five feet above the top of the hole. The bottom of the vent pipe shall be capped. The top of the vent pipe shall be capped throughout the anode and coke breeze backfill installation procedure to prevent intrusion of foreign material. Drilling mud shall not be allowed to enter in the vent pipe.

Anode Installation: The deep anode shall consist of  $10 - 2.2^{\circ} \times 84^{\circ}$  long high silicon cast iron anodes spaced at 10-foot intervals. The anodes shall be centered in the hole. The anodes shall be installed by lowering them individually into the hole by the lead wire. The final depth shall be recorded with the first anode in the hole (i.e. the bottom anode) identified as anode number one. The anode lead wires shall not be damaged during handling or lowering into the hole. Under no circumstances shall the anode lead wires be c lamped or pinched around another object while lowering. If the insulation for any anode lead wires are cut, broken, or nicked, the complete anode shall be rejected and shall be

removed from the job site. Corrpro shall replace all damaged anodes at no additional expense to Company.

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Anode Column Coke Backfill: The coke backfill shall be top loaded. A sufficient amount of backfill shall be used such that the coke breeze column will extend a minimum of 10-feet above the top of the uppermost anode and no closer than 30-feet from the top of the hole. Installation of the coke backfill shall be uniform with no voids around the anodes.

Vent Pipe Conditions: The 1-inch diameter internal vent pipe shall terminate with a glued slip-fit fitting then secured with a threaded vented plug. The top end of the vent pipe shall be left open to allow gases from the anode hole to exit.

Mud and Cuttings: Drilling mud, cuttings and other waste shall be disposed of onsite in a manner which complies with the rules and regulations of the State, City and County.

#### ANODE LEAD JUNCTION BOX

Location: Install anode lead junction box immediately adjacent to the deep anode. Place to allow ready access for testing with the bottom of the box at a minimum height of 3-feet above grade.

Concrete Pad: Junction box support (post or unistrut) shall be set in a Portland cement concrete anchor. Pour a minimum 4 inch thick by roughly 3-foot square concrete pad around the junction box.

#### **HEADER CABLE**

Dig a 4-inch wide x 18-inch deep trench from the junction box to the power unit pole. Install the DC positive cable in the bottom of the trench. Leave slack in the cable and avoid damage to the cable during installation.

## **NEGATIVE CABLE AND TEST LEAD**

Dig a 4-inch wide x 18-inch deep trench from the power unit to the structure. Install the DC negative cable in the bottom of the trench. Leave slack in the cable and avoid damage to the cable during installation, and attach to structure.

Method: Attach negative DC cables to the structure by a mechanical clamp at the location shown on the Drawings.

Preparation: Clean and dry the structure surface to which the negative cable is to be attached. Technician will remove all dirt, coating, oxide and mill scale from the structure surface. Use a solvent to remove oil and grease, if necessary. Clean the surface to bright metal.

NOTE: All cable connections will not be performed without the assistance of a certified/licensed low-voltage technician.



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Corrpre	Specific Safety Pla	in		
New-hire training and SSE identification p required for their job. SSE's are put under th the more stringent SSE program whether that Corrpro's policy/procedure for stopping u Authority Program, all employees are given t operations when the control of health, safety understood.	oolicy: New hires rec e direct supervision of is Corrpro or Encans nsafe acts: Through he authority to suspe and/or environmenta	eive orientation and safety training as of experienced employees and under a. Corrpro and Encana Stop Work nd individual tasks or group I risk is not clearly established or		
Developed for: Corrpro Farmington	Date: 12/15/2014			
Location: J31-2307 Well Pad	City: Lybrook	State: NM		
Job ID: 340140731				
installation of the Rectifier/Solar Unit. Cable cable) and to Rectifier from pipe (Negative c installation of ground bed	e will be installed to able). Inspection and	Rectifier to Groundbed (Positive Commissioning will occur after		
Project Manager: Bryan Schupp	Phone: 505-325	5-1946 Cell: 505-635-7744		
Safety Manager: Greg Sawka	Phone: 562-944	4-1636 Cell: 562-505-7404		
Other: Donavon Wright (Construction Sup.) Injury an	Phone: 505-325 rd Illness Managem	5-1946 Cell: 801-834-5118 ent		
(Here is what you will do in the event of an injury / illness on this job)				
First Aid/Wimor Freatment Facility: Un site by first	rnone: n/a			
Contact: Nearest hospital can be located via GPS and	Phone: 800-033-4350			
Emergency Transportation Provider: Ambulance s	ervice call 911	Phone: 911		

# **CORRPRO – PLUG AND ABANDON - DEEP ANODE GROUND BED**

Permits: Corrpro will assist the Company in applications for permits required by any City, County and/or State agencies.

Anode Hole/Surface Casing: At the surface of the anode bed the surface casing shall be excavated or hydro-excavated at a depth of 3' below grade. All conduits and wires shall be terminated and removed. The surface casing and vent pipe will be cut down flush at 2' below grade. Anode leads, after terminated, will be left in the anode bore. If the anode bore is open, a bentonite and water mixture will be poured in to backfill. A cement mixture of Portland cement shall be poured as backfill around the anode bed bore to approximately 6" above remaining surface casing. The excavation shall then be backfilled to grade with native soil.

## ANODE LEAD JUNCTION BOX

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Removal: The anode lead junction box immediately adjacent to the deep anode bed will be removed along with all remaining conduits and wiring. The 4x4 post will be removed along with the concrete pad and backfilled to grade with native soil.

## **NEGATIVE/POSITIVE CABLES**

Termination of negative/positive leads will be left to the discretion of the owner.

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