Form 3160-3 (August 2007)

A COMPLETE C-144 MUST BE SUBMITTED TO AND APPROVED BY THE NMOCD FOR: A PIT, CLOSED LOOP SYSTEM, BELOW GRADE TANK, OR PROPOSED ALTERNATIVE METHOD, PURSUANT TO NMOCD PART 19.15.17, PRIOR TO THE USE OR CONSTRUCTION OF THE ABOVE APPLICATIONS

FORM APPROVED OMB No. 1004-0137 Expires July 31, 2010

5. Lease Serial No.

UNITED STATES DEPARTMENT OF THE INTERIOR

IMDA 751-05-1025, Tract A **BUREAU OF LAND MANAGEMENT** 6. If Indian, Allotee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER Ute Mountain Ute 7. If Unit or CA Agreement, Name and No. la. Type of work: **✓** DRILL REENTER 8. Lease Name and Well No. Oil Well Gas Well lb. Type of Well: Single Zone Multiple Zone Ute Mountain Tribal 🔍 Name of Operator Elk San Juan, LLC 30.045 3a. Address 1401 17th Street, Suite 700 10. Field and Pool, or Exploratory 3b. Phone No. (include area code) 303-296-4505 Denver, CO 80202 Verde Gallup 11. Sec., T. R. M. or Blk. and Survey or Area 4. Location of Well (Report location clearly and in accordance with any State requirements.*) At surface 1930' FNL, 1980' FEL, SWNE Section 30-T31N-R14W SWNE Section 30, T31N, R14W, **NMPM** At proposed prod. zone 1930' FNL, 1980' FEL, SWNE Section 30-T31N-R14W 12. County or Parish 13. State 14. Distance in miles and direction from nearest town or post office* Approximately 12 miles North of Kirtland, New Mexico San Juan County NM Distance from proposed* 16. No. of acres in lease 17. Spacing Unit dedicated to this well 1930 location to nearest RCVD JUN 19'09 roperty or lease line, ft. 610' 7040.0 40 acres (Also to nearest drig. unit line, if any) ATT CANS ATU 20. BLM/BIA Bond No. on file 18. Distance from proposed location* 19. Proposed Depth to nearest well, drilling, completed, 2200 B001404 DIST. 3 applied for, on this lease, ft. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration -01/30/2009 25 Days 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- 1. Well plat certified by a registered surveyor.
- 2. A Drilling Plan.

5571' GL

- 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- 5. Operator certification
- Such other site specific information and/or plans as may be required by the

MINERALS STAFF CHIEF	Office		
Approved by (Signature) /S/ Richard A. Rymerson	Name (Printed/Typed)	Date JUN 1 7 2009	
Title Agent		APPROVED FOR A PERIOD NOT TO EXCEED 2 YEARS	
25. Signature Robert E. Firsch	Name (Printed/Typed) Robert E. Fielder	Date 01/06/2009	
	BLM		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, 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.

(Continued on page 2)

Approval of this agreement does not warrant or certify that the operator thereof and other holders of operating rights hold legal or equitable title to those rights in the subject lease which are committed hereto ...

Venting / Flaring approved for 80 day per NTL-4A

SEE ATTACHED CONDITIONS OF APPROVAL *(Instructions on page 2)

JAN - 8 2009

Buseau of Land Management Derengo, Ocharedo

NOTIFY AZTEC OCD 24 PRIOR TO CASING & CE ុប្តាន់ទោះស្មារ 1625 N. French Dr., Hobbs, NM 88240

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

District II 1301 W. Grand Avenue, Artesia, NM 88210

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
'Fee Lease - 3 Copies

AMENDED REPORT

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505

				WELL	LOCAT	ON AND A	CREAGE DED:	CATION F	PLAT		·
2	'API NI	umber 2490	92	*Pool 62	Code 510		'Pool Name ERDE GAL	LUP			
	Property Cod		17		l	*Property JTE MOUNTA	Name IN TRIBAL ろ	 ⁾		i	ell Number 23
	'OGRID No. 234144					*Operator ELK SAN J				• [Elevation 5571'
L	¹⁰ Surface Location										
UL		- 1	Township 31N	Range 14W	Lot Idn	Feet from the 1930	North/South line NORTH	Feet from the		est line	SAN JUAN
	or lot no. Se	ction 1	11 B	ottom Range	Hole L	ocation I		From Su			
	OF IDE NO. Set	1	Ownersto	Range	For You	Fest from the	North/South line	Feet from the	East/W	est line	County
12 Dec	licated Acres	0.0 Ac	res -	SW/4	NE/4	¹³ Joint or Infill	³⁴ Consolidation Code	²⁵ Onder No.	I		
N	ALLOWABL	_E WILI	L BE A	SSIGNEI NON-ST	D TO TH	IS COMPLETION OF THE PROPERTY	ON UNTIL ALL EEN APPROVED	INTERESTS BY THE DI	HAVE BE	EEN CO	NSOLIDATED
16	1313.40 [†] <i>LOT</i> 1		132	0.00 '		264 ,0 <u>6</u>	0.00'	I hereby herein i knowledg either o mineral proposed to drill	certify that strue and ceeped belief, who a working interest in bottom-hole that with a struct with	t the infi complete to and that ag interes the land location at this lo	IFICATION ormation contained the best of my this organization t or unleased including the or has a right cation pursuent of such a mineral voluntary pooling ling order ision.
. 00	LOT 2	,			LONG:	36.87390 °N 108.34835 °W TUM: NAD83	1980'	Printe	rt E. F d Name	ielder	Date IFICATION ell location ted from field
5280.	LOT 3				30 -			O notes my sup and co	of actual su ervision, and rect to the ey Date: ure and Seal	of Profe	e by me or under estame is true my belief ER 2, 2006 ssional Surveyor
	LOT 4		1320	0.00		264	0.00	Ja	THE CA	FESSION	PD WE LEVEL

Elk San Juan, LLC

UTE Mountain Tribal 30-23

SWNE SEC 30 T31N R14W San Juan County, New Mexico

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MAY 2 2 2009

Bureau of Land Management Durango Colorado

1. ESTIMATED FORMATION TOPS

FORMATION	TOP (feet)	COMMENTS
Lewis	Surface	
Cliff House	1541	
Menefee	1693	Potential water zone
Point Lookout	2403	Potential water zone
Upper Mancos	2839	
Gallup*	3864	
Tocito*	3928	Anticipated oil & gas zone
Sanastee*	4109	Anticipated oil & gas zone
Jauna Lopez*	4290	Anticipated oil & gas zone
TD	4500	

^{*}PROSPECTIVE PAY INTERVALS

NOTE: SURFACE ELEVATION: 5571 feet (GL)

2. CASING & CENTRALIZER PROGRAM

HOLE SIZE	DEPTH SET	CSG SIZE	WGHT	GRD	ID	THRD	CAP (bbl/ft)
12 1/4	200′	9 5/8	36.0	J-55	8.921	LTC	0.07731
8 3/4	3100′	7	23.0	J-55	6.366	LTC	0.03936
6 1/4	TD	4 1/2	11.6	J-55	4.000	LTC	0.01554

NOTE: All casing depth intervals are to surface unless otherwise noted.

Casing & Tubing Specs

SIZE (in)	ID (in)	DRIFT DIA (in)	WALL THICKNESS (in)	COLLASPE RESISTANCE (psi)	INTERNAL YEILD (psi)	TENSILE YEILD (lbm)	JOINT STRENGTH (lbm)
9 5/8	8.921	8.765	0.352	2020	3520	564000	394000
7	6.366	6.241	0.317	3270	4360	366000	284000
4 1/2	4.000	3.871	0.250	4960	5350	184000	154000

CENTRALIZER PLAN (spring-bow centralizers)

9 5/8" AT EVERY JOINT. SHOE: Cement nose guide shoe.

FLOAT EQUIPMENT: Cement nose guide shoe.

7" 1ST 5 JNTS: every joint. REMAINDER: every 5th joint. FLOAT EQUIPMENT: Cement nose guide shoe and float collar (1 jnt above shoe).

4 1/2" 1ST 30 JNTS: every joint. NEXT 15 JNTS: every third joint (~500' into intermediate). 4 TURBOLIZERS: 1st turbolizer 100' off bottom; then every 5 jnts. FLOAT EQUIPMENT: Float shoe and float collar (1 int above float shoe).

- A) Prior to drilling out intermediate, unload hole to displace fluid and prepare air system.
- B) The BLM will be notified 72 hours prior to running casing and cementing.
- **C)** Intermediate (7") casing will be drifted for 6.25" prior to running in the hole.
- **D)** As per 43 CFR 3160, Onshore Oil and Gas Order No. 2, Drilling Operations, B. Casing and Cementing Requirements:
 - a) All waiting on cement times shall be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drill out;
 - b) All casing strings will be pressure tested to 0.22 psi/ft of casing length or 1500 psi, whichever is greater, but not to exceed 70% of minimum internal yield. Pressure decline must be less than 10% in 30 minutes.

3. CEMENT PROGRAM

SURFACE (9 5/8) Total Slurry Volume: ~40 bbls 100% excess

HSR + 3% Calcium Chloride + 0.25 lb/sk Super Flake

INTERMEDIATE (7) Total Slurry Volume: ~110 bbls 50% excess

Lead: 246 sks: 35:65 POZ:HSR + 6% Bentonite + 5 lb/sk Gilsonite +

0.25 lb/sk Super Flake

Tail: 100 sks: HSR + 1% Calcium Chloride + 5 lb/sk Gilsonite + 0.25

i: lb/sk Super Flake

PRODUCTION (4 1/2) Total Slurry Volume: ~80 bbls

94 skc Premium Lite FM + 5% bwoc CSE + 5% bwoc LCM-1 + 95% bwoc LW-6 + 0.5% bwoc Sodium Metesilicate + 0.5% bwoc FL-63 + 0.4% bwoc R-3 + 0.2% bwoc CD-32 + 164% Fresh

Water

NOTE: Slurry design may change due to actual conditions.

- A) For Surface cement, if cement falls or does not circulate to surface, cement will be topped off.
- B) Cement will not be placed down annulus with a 1" pipe unless BLM is present.
- **C)** Surface and Intermediate cement programs are designed to bring cement to surface. Production program is designed to bring cement 500 ft into Intermediate.

4. MUD PROGRAM

1

INTERVAL	HOLE SIZE	MUD WGHT	VISC	FLUID LOSS	COMMENTS
SURFACE - 200'	12 1/4	8.4-8.8	28-35	NA	FRESH H2O
200 – 3100′	8 ¾	8.4-9.0	28-40	8-10	FRESH H2O w/polymer sweeps (as required)
3100 – 4500′	6 1/4 -	NA	NA	NA	AIR/AIR MIST

NOTE: Mud weight increases will be directed by hole conditions. No abnormal pressures are anticipated.

- A) Pump high viscosity sweeps as needed for hole cleaning.
- **B)** While air drilling, mud will remain in tanks in the event of well control issues. Higher air flow will be used first to flush out formation water. If required, air-mist will then be used to control fluid influx into wellbore.
- **C)** As per 43 CFR 3160, Onshore Oil and Gas Order No. 2, Drilling Operations, C. Mud Program Requirements:
 - a) Elk San Juan, LLC will record slow pump speed on daily drilling report after mudding up;
 - b) A mud test will be performed at least every 24 hours after mudding up to determine density, viscosity, gel strength, filtration, and pH;
 - c) A flare system will be used that gathers and burns all gas. The flare line(s) shall discharge at least 100 feet from the well head with straight lines and shall be positioned downwind of the prevailing wind direction and shall be anchored.

5. BOP & PRESSURE CONTAINMENT

INTERVAL	HOLE SIZE	PRESSURE TESTING		BOP EQUIPMENT	
SURF - 200'	12 1/4	NA		No BOPE required	
200 – 3100′	8 ¾	200# (5 min)	2000# (10 min)	2M BOP STACK DOUBLE RAM	
3100 – 4500′	6 1/4	200# (5 min)	2000# (10 min)	2M BOP STACK DOUBLE RAM ((9 ppg*0.052)-0.22)*4500 = 1116 psi	

- A) The BOPE shall be pressure tested when initially installed, whenever any seal subject to pressure testing is broken, or after repairs.
- B) BLM will be notified 72 hours prior to BOP pressure tests.
- c) All BOP tests will be performed with a test plug in place.
- **D)** BOP will be tested to full stack working pressure.
- **E)** The BOPE shall be closed whenever the well is unattended.
- **F)** As per 43 CFR 3160, Onshore Oil and Gas Order No. 2, Drilling Operations, C. Well Control Requirements:
 - a) For choke manifold equipment, all chokes lines shall be straight lines unless turns use tee blocks or are targeted with running tees, and shall be anchored to prevent whip and reduce vibration;
 - b) 2M system accumulator shall have sufficient capacity to close all BOP's and retain 200 psi above precharge;
 - c) Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 70 percent of internal yield pressure of casing if BOP stack is not isolated

from casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer.

WELLHEAD

Casing Head: C-22, 11" 3000# x 9 5/8" SOW with 2-2" LPO

Tubing Head: TCM 11" 3000# x 7 1/16" 5000# with 2 1/16" studded outlets,

6. SURVEY & LOGGING PROGRAMS

A) Directional Drilling: If required, directional tools may be to minimize doglegs.

- B) Open Hole Logs: No log run for intermediate. TD into intermediate casing (~2600'): MultiExpress Dual Formation Resistivity, Gamma Ray, Litho-Density, Epithermal Neutron to be logged from. Gamma Ray-Neutron to surface. There will not be fluid in the hole.
- C) Mud Logs: If required, mud logger may come on at 200' (out of surface) and will remain on until TD. The computerized 2-person logging unit would catch and describe 30 foot samples to intermediate casing point; 10 foot samples to TD; record and monitor gas shows and record drill times (normal mud logging duties).
- **D)** Cores: No cores will be taken.

7. AUXILIARY EQUIPMENT

A) Upper Kelly Cock (with handle available).

8. CONTACTS

CONTACT		OFFICE No.	CELL No.
Anna Ilhan	Operations	(303) 339-1934	(303) 884-5138
John Whisler	Operations	(303) 339-1925	(303) 862-2822
Ric Kopp	Geology	(303) 339-1921	(303) 506-1336
Main Office	•	(303) 296-4505	FAX: (303) 339-1917



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JAN 2 1 2009

Bureau of Land Management Durango, Colorado

January 19, 2009

Bureau of Land Management San Juan Field Office 15 Burnett Court Durango, CO 81301

RE: Designation of Agent or Representative – Elk San Juan, LLC

To Whom It May Concern:

Elk San Juan, LLC herby designates Bob Fielder, Property Management & Consulting, Inc., as an agent or representative for all permitting and regulatory actions with the Bureau of Land Management, San Juan Field Office as related to our ongoing projects. This designation shall remain in effect until written notice is provided by Elk San Juan, LLC to terminate the agent or representative relationship.

Bob Fielder Property Management & Consulting, Inc. 9 Road 5285 Bloomfield, NM 87413

PO Box 2596 Farmington, NM 87499 (505) 325-5220

Should you have any questions or need additional information please do not hesitate to contact me at 303-296-4505.

Sincerely,

Richard P. Crist

Executive Vice President Business Development

cc: John Whisler

Tribal IMDA: 751-05-1025

Well: Ute Mountain Tribal #30-23

Surface Location: 1930' FNL & 1980' FEL

Sec. 30, T. 31 N., R. 14 W. San Juan County, New Mexico

Conditions of Approval - Drilling Plan

1. All drilling locations must be built as drilled and not constructed 'back to back' prior to drilling.

- 2. No additional zones will be commingled without UMU Tribal and BLM approval.
- 3. Stabilized Bottom hole pressures must be taken from each perforated zone.
- 4. Notify this office at least 3 days prior to:
 - a. spudding the well
 - b. running casing strings and cementing
 - c. BOP tests
 - d. Drill Stem Testing

For the above procedures, Operators must talk to BLM personnel directly. Do not leave messages on answering machines.

- 5. All BOP tests will be performed with a test plug in place. BOP will be tested to full stack working pressure and annular preventer to 50% maximum stack working pressure. All accumulators will be function tested as per Onshore Order #2. All 2M or greater systems require **adjustable** chokes as per Onshore Order #2.
- 6. If a BLM Inspector is not present during the initial BOP test, please provide chart record.
- 7. Submit copies of all logs to this office both paper and in Log ASCII Standard (LAS) format.
- 8. If any operations are to start over the weekend, notify this office by <u>noon</u> Friday. If any problems arise after hours or on weekends, call BLM personnel using the home phone numbers listed on the following 'INFORMATIONAL NOTICE APD's'. Do not leave messages on answering machines.

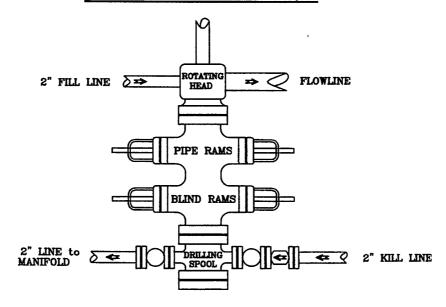
Continued on Page number 2.

3160

- 9. The BLM must witness the topping-off of the Surface Casing Cement
- 10. A CBL is required if cement is not circulated to the surface on either casing string. BLM verbal approval will be required prior to squeezing.
- 11. See attached sheet regarding comingling.
- 12. The tops of all major identifiable geologic units (formations) from surface to TD will be logged and recorded.
- 13. Stabilized bottomhole pressure measurements and flowrates <u>must</u> be collected.
- 14. Well File Information: Please provide copies of the items on the attached sheet if available.
- 15. The Surface casing is to be set to a minimum depth of 300 ft as per your NOI dated 5/20/2009.

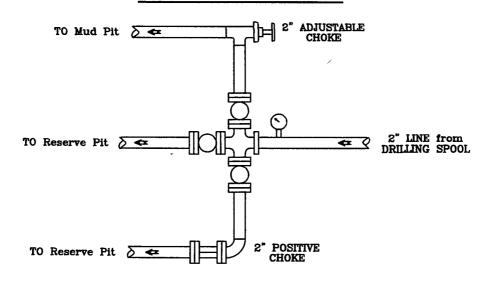
PRESSURE CONTROL

Wellhead Assembly



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

Choke Manifold



Elk San Juan, LLC

Ute Mountain Tribal No. 30-23 1930' FNL - 1980' FEL Section 30, T31N, R14W, NMPM San Juan County, New Mexico