ng.3 FORM APPROVED Form 3160-3 OMB No. 1004-0137 Expires March 31, 2007 (April 2004) UNITED STATES Lease Serial No DEPARTMENT OF THE INTERIOR 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. **✓** DRILL REENTER la. Type of work: 8. Lease Name and Well No. Oil Well

✓ Gas Well ✓ Single Zone Multiple Zone lb. Type of Well: Ute Mountain Tribal 9. API Well No. Name of Operator Elk San Juan, Inc. 30-*045-*341 3a. Address 1401 17th Street, Suite 700 3b. Phone No. (include area code) Denver, CO 80202 303.296.4505 Basin Dakota 11. Sec., T. R. M. or Blk. and Survey or Area Location of Well (Report location clearly and in accordance with any State requirements.*) 660' FSL - 1650' FEL, Section 24, T31N, R15W, NMPM At surface O Section 24, T31N, R15W, NMPM At proposed prod. zone same 12. County or Parish 13. State 14. Distance in miles and direction from nearest town or post office* 12 miles North of Kirtland, New Mexico NM San Juan Distance from proposed* 17. Spacing Unit dedicated to this well 16. No. of acres in lease 1650 location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) E/2 - 320.0 acs. 990 7040 acs 20. BLM/BIA Bond No. on file Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 19. Proposed Depth 950 46001 B001404 Elevations (Show whether DF, KDB, RT, GL, etc.) 22 Approximate date work will start* 23. Estimated duration 5549' GL 01/01/2007 25 days VENUE OF PRINCE SERVE VERSE OF THE 24. Attachments THIND-ON-The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form: 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 2 A Drilling Plan 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification SUPO shall be filed with the appropriate Forest Service Office). Such other site specific information and/or plans as may be required by the authorized officer 25. Signature Name (Printed/Typed) Date Robert E. Fielder 11/27/2006 Title Agent Approved by (Signature) DDEC 1 4 2006 n Manacost Office Title 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. Application For Pits-NM OCD Form 4-103 PLocation
must be filed prior to construction of Location *(Instructions on page 2) wanan ar condity in a the warmer

SEE ATTACHED

CONDITIONS OF APPROVAL

12/06

thereof and other holders of operator

rights hold legal or equitable fills

which are committed hereio...

to those rights in the subject lease

Bureau of Land Management Durango, Colorado

NOV 3 0 2006

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

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

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

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

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

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

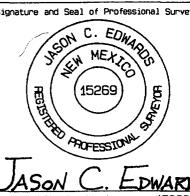
AMENDED REPORT

OIL COMS. DIV WELL LOCATION AND ACREAGE DEDICATION PLAT Popl Name 'API Number Pool Code BASIN DAKOTA 71599 0-045-34114 Well Number Property Code Property Name 43 UTE MOUNTAIN TRIBAL 35229 'OGRID No. Elevation Operator Name 5549 ELK SAN JUAN, INC. 234144 ¹⁰ Surface Location UL or lot no. Section Township Feet from the North/South line East/West lane County Range Lot Idn Feet from the SAN JUAN 0 24 31N 15W SOUTH 1650 EAST 660 ¹¹Bottom Hole Location If <u>Different</u> From Surface UL or lot no. Range Lot Idn Feet from the North/South line Feet from the East/West line County 12 Dedicated Acres ¹³Joint or Infill ¹⁴ Consolidation Code ¹⁵ Order Na. 320.0 Acres - E/2NO 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 16 5278.68 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Signature Robert E. Fielder Printed Name Agent Title November 27, 2006 Date *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. 5280.00 5280. Date of Survey: JULY 11, 2006 Signature and Seal of Professional Surveyor

LAT: 36.88103 N LONG: 108.36526 W DATUM: NAD83

5280.00

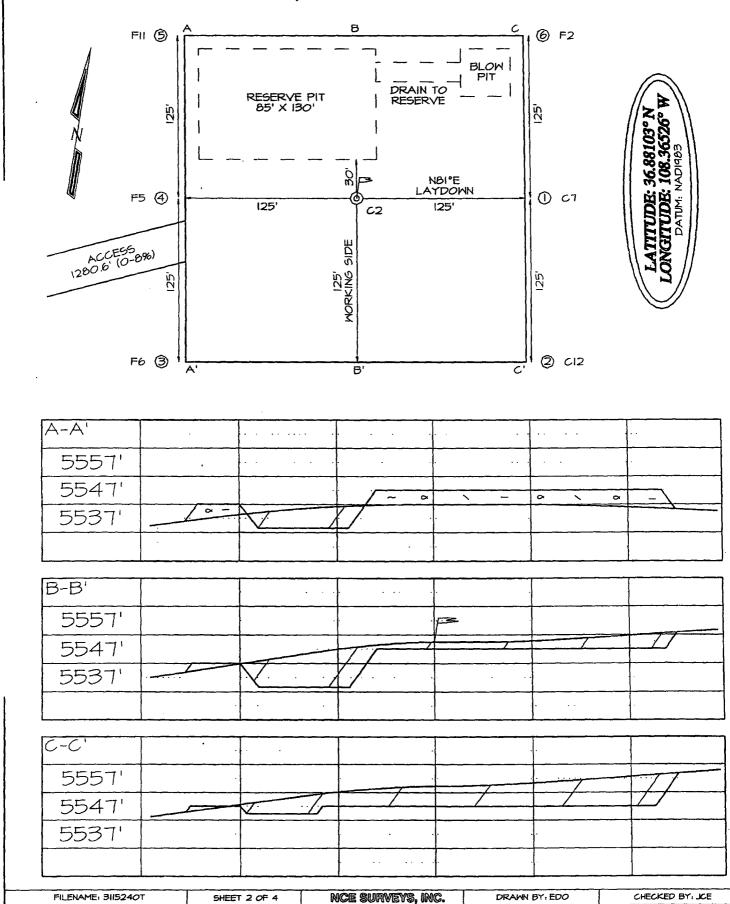
660



Certificate Number 15269

1650'

ELK SAN JUAN, INC. UTE MOUNTAIN TRIBAL #24-43 660' FSL & 1650' FEL, SECTION 24, T31N, R15W, NMPM SAN JUAN COUNTY, NEW MEXICO ELEVATION: 5549'



Elk San Juan, Inc.

Ute Mountain Tribal No. 24-43
660' FSL & 1650' FEL

Section 24, T31N, R15W, NMPM
San Juan County, New Mexico

TEN POINT DRILLING PROGRAM

- 1. Surface Formation: Lewis
- 2. Surface Elevation: 5549'GL.

3. Estimated Formation Tops:

Formation	Top - feet	Expected Production
Lewis	surface	
Cliff House	684	
Menefee	852	
Pt. Lookout	1623	
Upper Mancos	1753	
Gallup	2110	GAS/OIL
Tocito	3146	
Sanastee	3220	
Lower Mancos	3402	
Greenhorn	3599	
Graneros	3980	GAS
Dakota	4046	GAS
Burro Canyon	4156	
Morrison	4261	
TOTAL DEPTH	4600	

4. Surface Hole Program:

Bit: Drill a 12 1/4" hole to 350' using a mill tooth, IADC Class 116 or 117 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 - 350	8.6 or less	9.0-9.5 40 - 50	No Control

Casing and Cementing: A string of 8%" 24# J-55 or K-55 ST&C casing will be set and cemented to the surface in a single stage with 245 sacks 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 12 1/4" by 8 5/8" 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.

Drilling Program
Elk San Juan, Inc.
Ute Mountain Tribal No. 24-43
Page Two

Surface Hole Program: - continued

WOC 12 HOURS. Nipple up 11" 3000# BOPE. Pressure test wellhead and surface BOPE to full working pressure. Pressure test surface casing and BOPE to 600 psi for 15 minutes prior to drilling surface shoe.

Centralizers: Run three (3) 8%" X 12 4" 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.

5. Production Hole Program:

Bit: Drill a 7 %" hole to 4600' using TCI, IADC Class 447 bits. WOB: 35-45K. RPM: 60 - 75.

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

Interval (ft)	Weight (ppg)	<u>Ph</u>	<u>Vis(sec/qt)</u>	Water Loss
350 - 2010	8.6 - 8.8	9.0-9.5	28 - 35	10 - 12
2010 - 4600	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 Gallup using polymer and drispac additions to water. Mud up before drilling into Gallup.

<u>Lost Circulation</u> is expected and can occur in the Gallup/Tocito/Sanastee interval. 5-10% LCM will be added to the system as soon as mud up is complete and before drilling into the Tocito. Mud weights should be controlled as low as possible with solids control equipment then as low as practical with water dilution.

Drilling Program
Elk San Juan, Inc.
Ute Mountain Tribal No. 24-43
Page Three

5. Production Hole Program: - continued

Pressure Control: A 3M psi BOP well control system will be utilized. BOP's and choke manifold will be installed and pressure tested to full working pressure 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. 5 %" 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 Formation Density/Compensated Neutron logs will be run from TD to surface casing shoe.

Casing and Cementing Program: Run 5½" 15.5 ppf J-55 production casing from surface to TD and cement in two stages with a mechanical DV tool set at 2110'±. Stage One: (TD -2110') Cement with 220 sacks (404.8 cf) of 65/35 Class G POZ containing 6% gel, 5 pps gilsonite, 0.25 pps celloflake and 0.5% FLA mixed at 12.4 ppg to yield 1.84 cf/sk. Tail in with 200 sacks (248.0 cf) of 50/50 Class G Poz with 2% gel, 5 pps gilsonite, 0.25 pps celloflake, 0.2% FLA and 0.1% dispersant mixed at 13.5 ppg to yield 1.24 cf/sk. Stage Two: (2110' - surface) Cement with 230 sacks (487.6 cf) of 65/35 Class B POZ containing 6% gel, 5 pps gilsonite and 0.25 pps celloflake mixed at 12.1 ppg to yield 2.12 cf/sk. Tail in with 50 sacks (63.0 cf) of Class B with 2% CaCl₂, 5 pps gilsonite and 0.25 pps celloflake mixed at 15.26 ppg to yield 1.26 cf/sk.

Circulate and WOC at least four hours between stages.

Slurry volumes assume a 50% excess over gauge hole volume. 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: 10 - 5 %" X 7 %" bowspring centralizers will be run across all prospective pays and 4 - 5 %" X 7 %" turbolizers will be spaced so that three (3) are through the Gallup - Upper Mancos interval and one is at the base of the Pt. Lookout.

Float Equipment: Cement nose float shoe, 1 joint 5½" casing and float collar.

6. Auxiliary Equipment:

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

Drilling Program
Elk San Juan, Inc.
Ute Mountain Tribal No. 24-43
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7. Logging Program:

Dual Induction and Epithermal Neutron / Formation Density will be run from TD to surface casing shoe. 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:

None anticipated.

Estimated Bottom Hole Pressure:

2000 - 2300 psig.

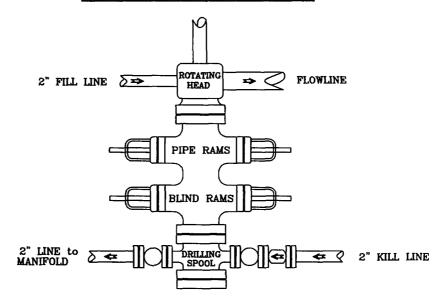
9. Anticipated Starting Date:

January 1, 2007.

Duration of Operations: It is estimated a total of 15 days will be required for drilling operations and 10 days for the completion operation.

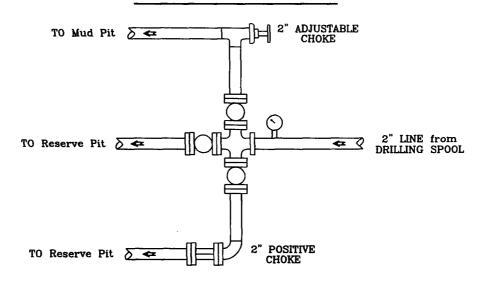
PRESSURE CONTROL

Wellhead Assembly



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

Choke Manifold



Elk San Juan, Inc.

Ute Mountain Tribal No. 24-43 660' FSL - 1650' FEL Section 24, T31N, R15W, NMPM San Juan County, New Mexico