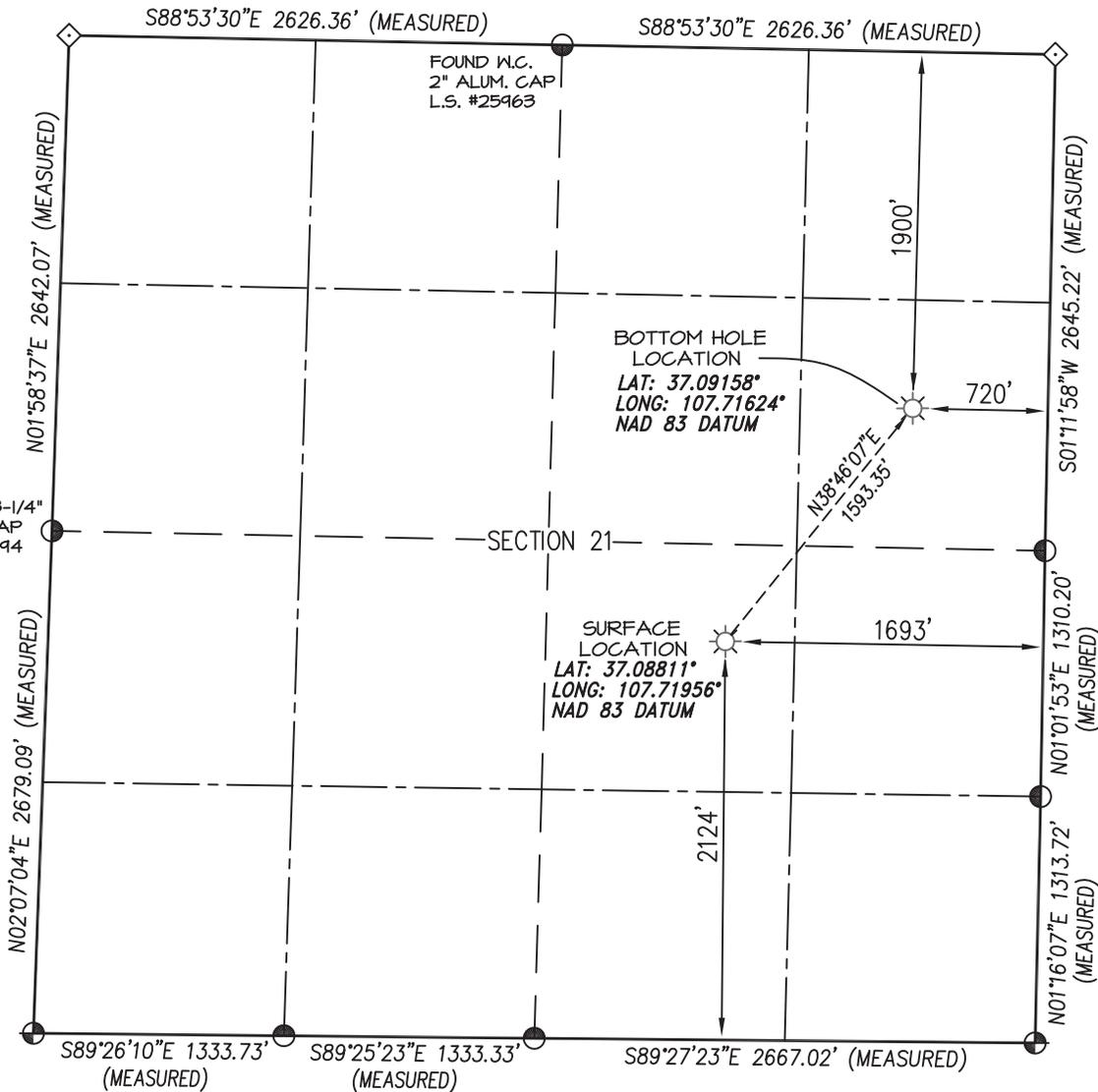


**ELM RIDGE EXPLORATION COMPANY, LLC: IGS 146**

**SURFACE LOCATION: 2124' FSL & 1693' FEL**  
**SEC. 21, T-33-N, R-8-W, N.M.P.M., LA PLATA COUNTY, COLORADO.**  
**GROUND LEVEL ELEVATION: 6876'**

**BOTTOM HOLE LOCATION: 1900' FNL, 720' FEL**  
**SEC. 21, T-33-N, R-8-W, N.M.P.M., LA PLATA COUNTY, COLORADO.**



**BASIS OF BEARING:**  
 REAL-TIME KINEMATIC GPS SURVEY  
 SOLUTION OF CO SOUTH STATE  
 PLANE (NAD 83) COORDINATE GRID  
 - NO ROTATION OR SCALE FACTOR APPLIED -

**BASIS OF ELEVATION**  
 TOPO ELEVATION INTERPOLATED FROM U.S.G.S.  
 7.5 MIN. "IGNACIO" QUADRANGLE MAP &  
 GPS ORTHOMETRIC HEIGHT SOLUTION.



FOUND 3-1/4" ALUM. CAP L.S. #17494

FOUND W.C. 2" ALUM. CAP L.S. #25963

**BOTTOM HOLE LOCATION**  
 LAT: 37.09158"  
 LONG: 107.71624"  
 NAD 83 DATUM

**SURFACE LOCATION**  
 LAT: 37.08811"  
 LONG: 107.71956"  
 NAD 83 DATUM

**NOTES:**

1. WELL LOCATION FOOTAGE CALLS MEASURED PERPENDICULAR TO SECTION LINES.
2. SURFACE USE FOR THE LAND SURROUNDING THIS LOCATION IS DRY GRASS LAND.
3. VISIBLE IMPROVEMENTS WITHIN 500' OF WELL BORE LOCATION ARE SHOWN ON ATTACHED PAD DIAGRAM OR ON ATTACHED 500' RADIUS VISIBLE IMPROVEMENT DETAIL.
4. THERE ARE NO PUBLIC ROADS, MAJOR ABOVE GROUND UTILITIES, OR RAILROADS WITHIN 200' OF THE WELL BORE LOCATION.
5. THERE ARE NO PROPERTY BOUNDARY LINES WITHIN 150' OF THE WELL BORE LOCATION.
6. WELL GPS OBSERVATION PERFORMED BY SCOTT WEIBE ON DATE OF SURVEY - PDOP VALUE = 2.25
7. THIS EXHIBIT IS INTENDED TO DEPICT THE PROPOSED WELL LOCATION AND DOES NOT REPRESENT A MONUMENTED BOUNDARY SURVEY.

⊕ and ⊙ denote found 3-1/4" B.L.M. aluminum cap unless otherwise noted.

◇ denotes position determined from found Reference Markers & magnetic locator



I, KENNETH E. REA, A REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF COLORADO, DO HEREBY CERTIFY THAT THE WELL LOCATION SHOWN ON THIS PLAT IS ACCURATELY PLOTTED FROM FIELD NOTES OF ACTUAL SURVEYS MADE UNDER MY DIRECT SUPERVISION, AND THAT THIS PLAT IS NOT A LAND SURVEY PLAT OR IMPROVEMENT SURVEY PLAT, AND THAT IS IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OF FENCE, BUILDING, OR OTHER FUTURE IMPROVEMENT LINES.

DRAWN BY: K.R.	CHECKED BY: K.R.	FILE NO. ELM097MP	JOB NO. ELM097	PREPARED FOR: <b>ELM RIDGE EXPLORATION CO. LLC</b>
SURVEYED: 1/10/14	DRAWN: 2/4/14	<p><b>NORTHSTAR</b>  <b>SURVEYING &amp; MAPPING, INC.</b></p> <p>768 County Rd. 308                  DURANGO, CO. 81303                  (970) 385-0851</p>		