



4/29/2014

VIA ELECTRONIC TRANSMITTAL

Colorado Oil and Gas Conservation Commission  
Attn: Matt Lepore, Director  
1120 Lincoln Street, Suite 801  
Denver, CO 80203

RE: Rule 318A.a Proposed Spacing Unit Request

Synergy Resources, Corp – 1 well of eight (8) well Markham Pad:  
SRC Markham 31-16-9NHZ: Top Production Zone at 2198' FNL, 1800' FEL, Sec. 16-T4N-R68W  
BHL at 460' FNL, 1800' FEL, Sec. 9-T4N-R68W  
Surface Pad SENW Sec. 16-T4N-R68W, Weld County, Colorado

Dear Mr. Lepore,

Synergy Resources Corporation (Synergy) is planning to drill the captioned wells in accordance with the provisions of COGCC Rule 318A.e.

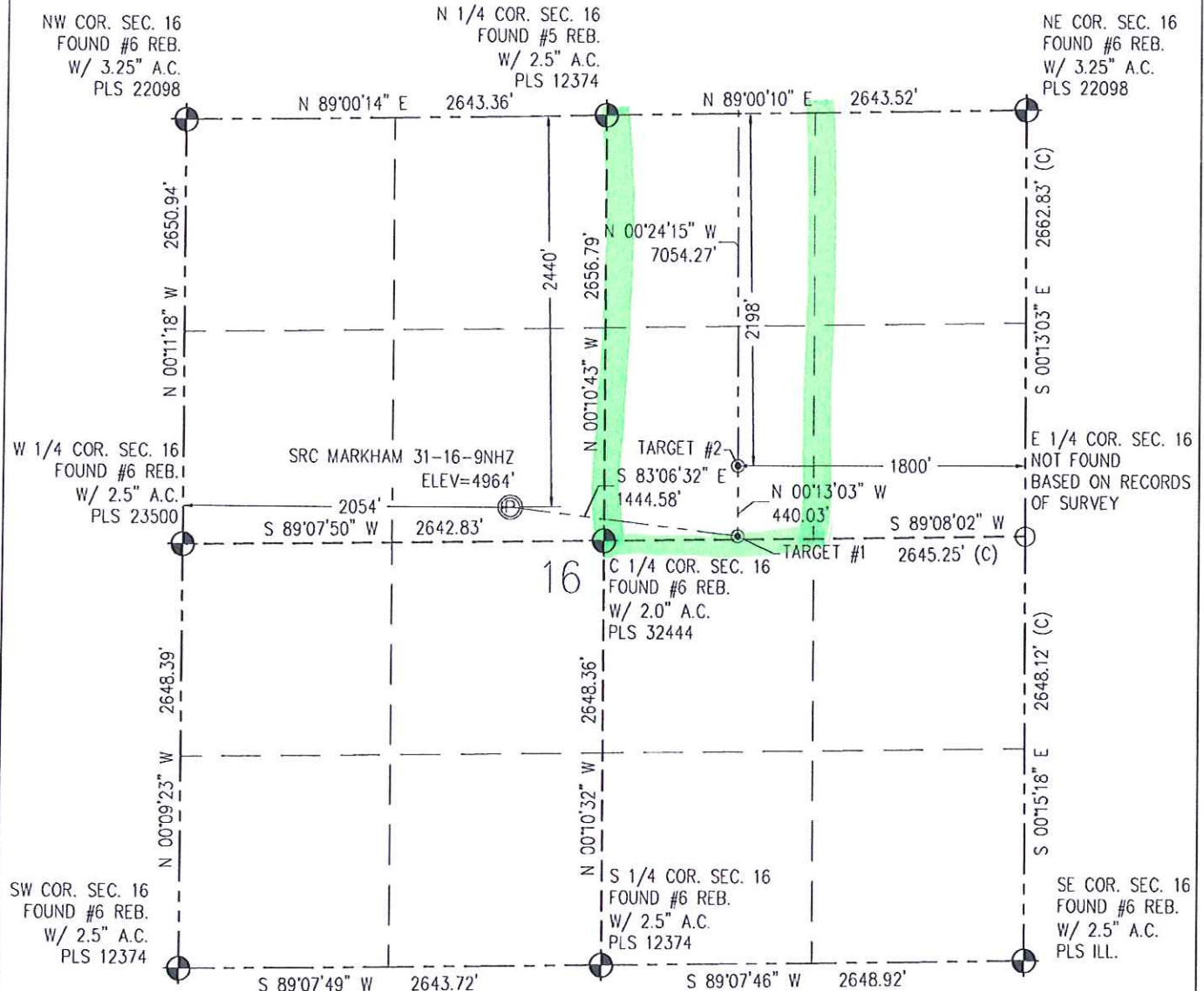
Synergy Resources Corp. (Synergy's) proposed wellbore spacing unit for this well consists of W/2, of E/2 Sec. 9-T4N-R68W & the W/2 of NE/4 of Sec. 16-T4N-R68W (See attached Map).

Synergy is the only owner within the proposed wellbore spacing unit, therefore Synergy attests that no notice letters are required under COGCC Rule 318A.e.(6).

Sincerely,

Clayton L. Doke  
Senior Engineer  
Integrated Petroleum Technologies, Inc.  
Consultants to Synergy Resources Corp.

Baseline Engineering Corp. 710 11th Avenue Suite 105 Greeley, Colorado 80631

**WELL LOCATION CERTIFICATE****THIS MAP DOES NOT REPRESENT A BOUNDARY SURVEY**SECTION 16  
TOWNSHIP 4 NORTH  
RANGE 68 WEST

IN ACCORDANCE WITH A REQUEST FROM CRAIG RASMUSON - SYNERGY RESOURCES, BASELINE ENGINEERING CORP. HAS DETERMINED THE LOCATION OF THE SRC MARKHAM 31-16-9NHZ TO BE 2440' FNL AND 2054' FWL, AS MEASURED AT NINETY (90) DEGREES FROM THE SECTION LINE OF SECTION 16, TOWNSHIP 4 NORTH, RANGE 68 WEST AND THE BOTTOM HOLE LOCATION TO BE 460' FNL AND 1800' FEL OF SECTION 9, TOWNSHIP 4 NORTH, RANGE 68 WEST, 6TH PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO

I HEREBY CERTIFY THAT THIS WELL LOCATION CERTIFICATE WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, THAT THE FIELD WORK WAS COMPLETED ON 2/24/2014, THAT IT IS NOT A LAND SURVEY PLAT OR AN IMPROVEMENT SURVEY PLAT, AND THAT IT IS NOT TO BE RELIED UPON FOR ESTABLISHMENT OF FENCE, BUILDING, OR OTHER FUTURE IMPROVEMENT LINES

0 1000  
Scale 1" = 1000 ft

**NOTES:**

- 1) LAT/LONG SHOWN ARE BASED ON A GPS OBSERVATION (NAD83).
- 2) BEARINGS SHOWN ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NORTH AMERICAN DATUM 1983/2007.
- 3) GROUND ELEVATIONS ARE BASED ON A GPS OBSERVATION (NAVD 88 DATUM)
- 4) ALL DISTANCES SHOWN ARE FIELD MEASURED UNLESS OTHERWISE NOTED.
- 5) THE NEAREST EXISTING WELL IS: NONE IN SECTION.
- 6) IMPROVEMENTS: SEE LOCATION DRAWING EXHIBIT FOR ALL VISIBLE IMPROVEMENTS WITHIN 600' OF WELL HEAD.
- 7) SURFACE USE: PASTURE/AGRICULTURAL
- 8) OPERATOR NAME: BRETT BIRCH.

NOTICE: According to Colorado law you MUST commence any legal action based upon any defect in this WLC within three years after you first discover such defect. In no event may any action based upon any defect in this WLC be commenced more than ten years from this said date of the certification shown hereon.

**SURFACE HOLE:**  
LATITUDE: 40.313924° N  
LONGITUDE: 105.010428° W  
PDOP: 1.3  
1/4, 1/4: SE1/4NW1/4  
NEAREST PROPERTY LINE: 215' S

**BOTTOM HOLE:**  
LATITUDE: 40.333993° N  
LONGITUDE: 105.005325° W

**TARGET #1:**  
LATITUDE: 40.313427° N  
LONGITUDE: 105.005290° W

**TARGET #2:**  
LATITUDE: 40.314635° N  
LONGITUDE: 105.005288° W

**LEGEND**

- - FOUND/SET SURVEY MONUMENT PER MONUMENT RECORD EXCEPTIONS NOTED
- - CALCULATED SURVEY MONUMENT POSITION
- (C) - CALCULATED DIMENSION



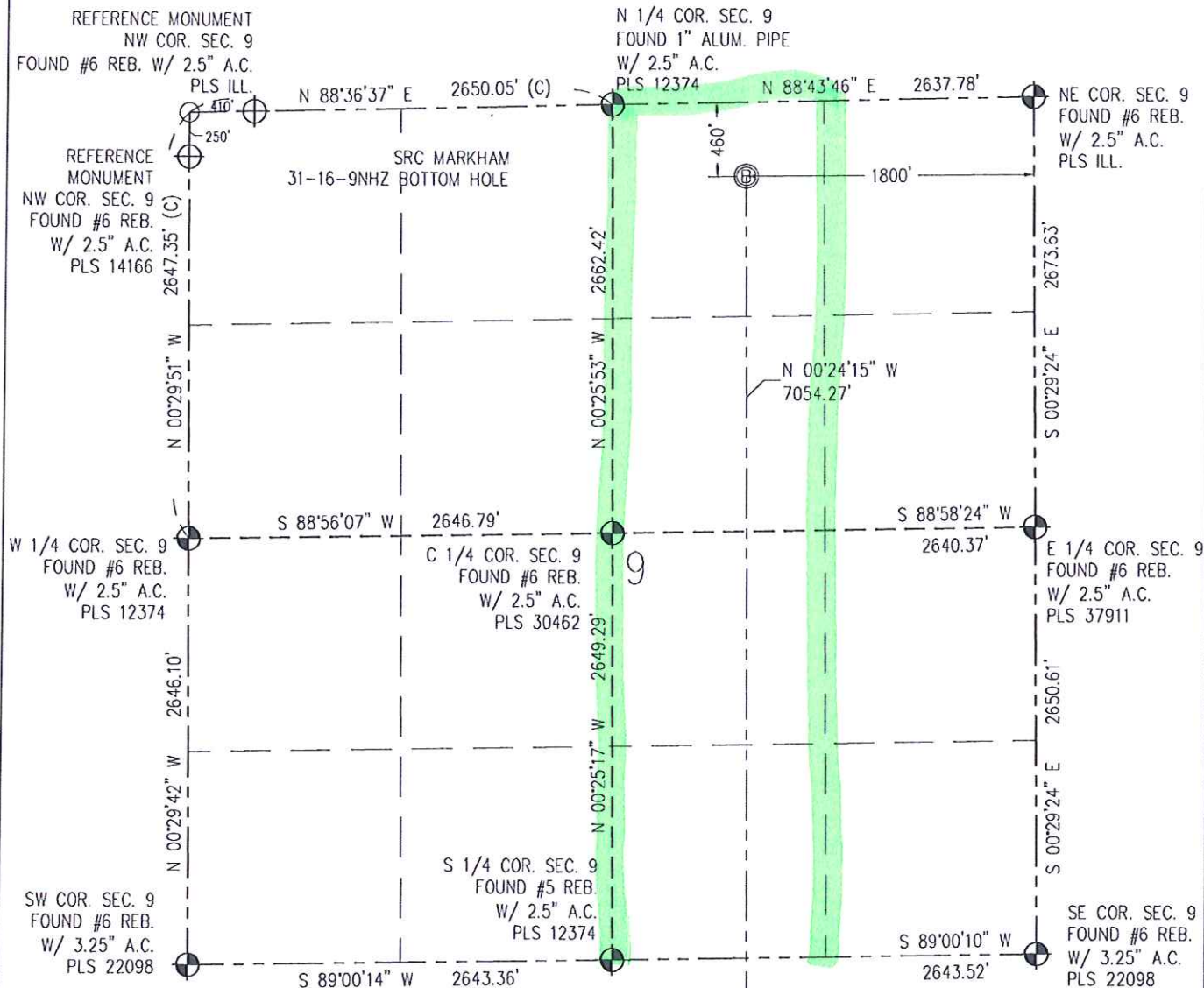
AARON A. DEMO  
Professional Land Surveyor Registration No. 38285  
State of Colorado  
FOR AND ON BEHALF OF BASELINE ENGINEERING CORP.

Completed  
3/7/2014

PROJECT # SYN04N68W16-01



Baseline Engineering Corp. 710 11th Avenue Suite 105 Greeley, Colorado 80631

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