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December 21, 2020,

K.P. Kauffman Company
1675 Broadway, Ste 2800
Denver, CO 80202

Attn: Zach Stults

Third Party Flowline Abandonment Verification: KPK – State #4 (05-123-08184)

On 07/29/2020 the subject well was cut and capped to finalize the plugging and abandonment procedures as described in the Form 6 SROA (Doc. # 402456520). Beginning July 22nd, a Kauffman Well Services (KWS) roustabout crew proceeded removing the pumping unit, cement base pad, and began excavating around the wellhead in preparation for abandoning the 3" SDR11 poly flowline "in-place".

- **Abandonment In-Place Procedure:** As soon as the downhole P&A activities were completed and the workover rig moved off location a "line locate" notification was placed to clear a 150' radius around the wellhead. To purge the 2,680' - 3" flowline a KWS vacuum truck partially filled with city water was connected to the wellhead riser and an empty vacuum truck was connected to the manifold inlet (end pt.). Approximately 40 Bbls (2 x capacity) of water was pumped through the flowline to purge any remaining hydrocarbons. The truck at the manifold continued to pull a vacuum to recover as much water as possible after pumping ceased. A roustabout crew then proceeded to cut the flowline just below ground level, installed a metal collar with bull plug, and taped over. The inlet fittings to the manifold were removed and replaced with 3" Victaulic clamps with a metal capping plate. At the well location, a backhoe was used to dig a 6' hole around the wellhead to cut and cap the well, and also to expose the riser/flowline connection at approximately 5' deep. Per the request of the landowner, approximately 75' of flowline was removed from the riser to the north edge of location. A poly to metal transition was fused on the end of the cut pipe and a metal collar with bull plug attached and taped over. Pictures detailing the capped ends at the manifold and well location are shown in the attached Figures 1 & 2.
- **Reason for Partial Abandonment:** Per an agreement with Jon Lee, V.P – Community Development Group and representative for the landowner, Silverstone Metropolitan District No. 1, the flowline was abandoned "in-place". The SW portion of Sec. 36-2N-68W among other surrounding parcels are currently being developed for residential use. The path of the flowline from the edge of location to the manifold either bordered an existing sidewalk, is buried beneath a paved street or is in the same ROW with other existing flowlines. It was agreed that attempting to remove portions of the flowline would risk damaging the adjacent features/flowlines or cause excessive surface disturbance. As stated above, approximately 2,600' of flowline is abandoned in-place. Figure 3 is a picture of the well location after all abandonment activities were completed and grading. The attached aerial photograph highlights

the path of the portion of the flowline remaining underground, as well as other flowlines in the general vicinity.

- **Background on Harrison Advisory LLC:** Alan C. Harrison founded Harrison Advisory LLC in 2015 to provide oil and gas engineering and advisory services, and is currently licensed to do business in the State of Colorado. Alan graduated from the Colorado School of Mines in 1981 with a Bachelor of Science in Petroleum Engineering. Alan has extensive experience in the upstream and midstream aspects of the oil and gas industry, including direct supervision of wellsite and flowline construction and abandonment activities. Alan's familiarity with the COGCC rules and regulations began in 1996 when he served as Operations Manager for HS Resources in the DJ Basin. He continued to serve in various management and executive positions responsible for overseeing large scale operations for companies whose primary assets were located in Colorado. Alan has kept apprised of the many changes in the COGCC rules such as the recently revised 1100 Series Flowline Regulations. Harrison Advisory was retained in 2018 by K.P. Kauffman to assist with operations for their Colorado and New Mexico assets.



Alan C. Harrison
Harrison Advisory LLC

KPK - State #4

API: 05-123-08184

Figure 1 "Capped 3" flowline"

3" SDR11 poly flowline

3" poly to metal transition

Metal collar

Bull plug



Figure 2 "Inlet manifold"



3" victaulic clamps with cap plate at inlet & by-pass

Cut 3" flowline, filled with cement, taped





KPK - State #4

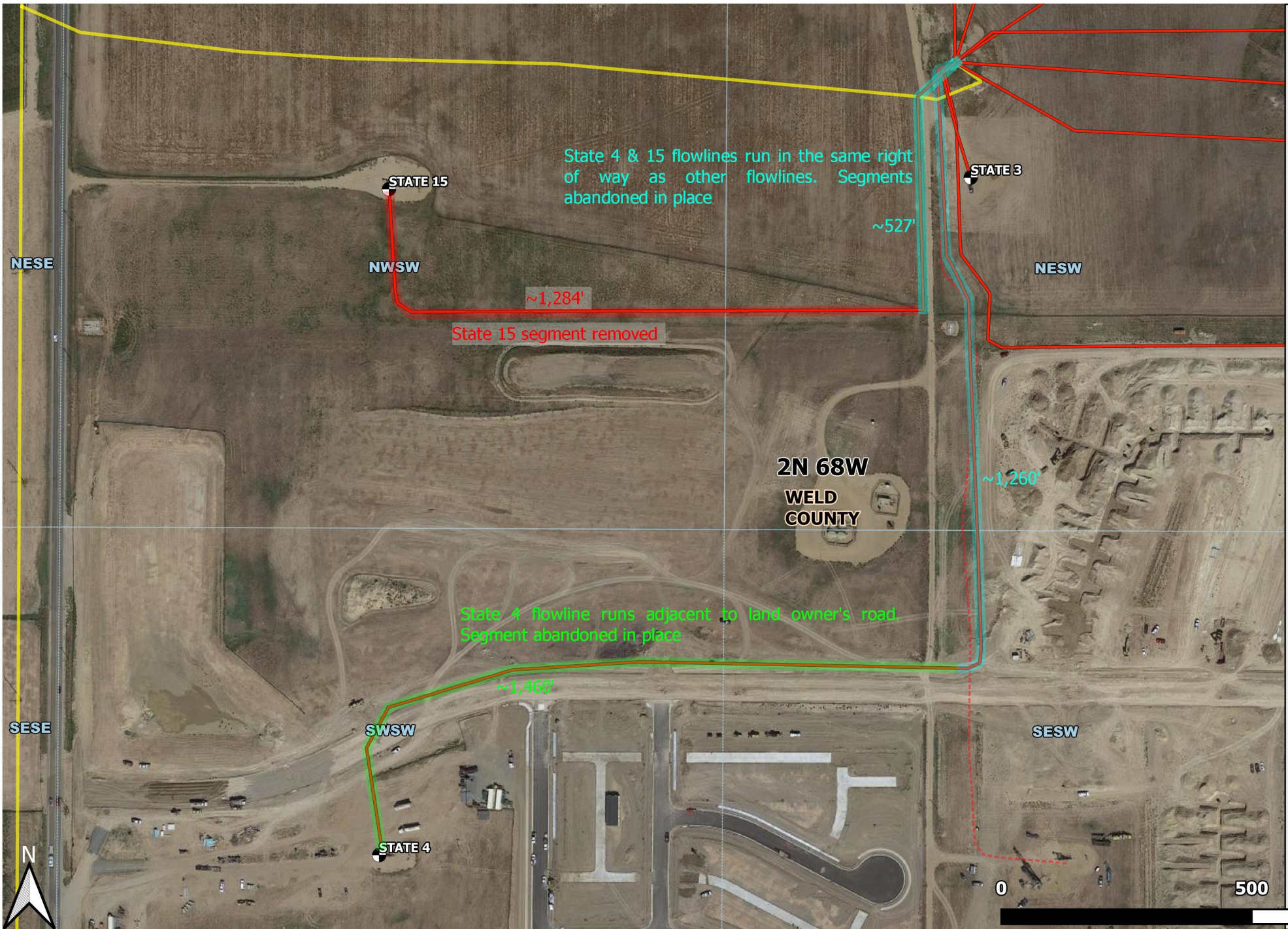
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Figure 3 "Abandoned location"




Legend

-  KPK Well
-  KPK Battery
- KPK Flowlines
 -  Consolidation
 -  Well Flowline



Date:	12-16-2020
Designed By:	K.P. Kauffman Co.



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K.P. Kauffman Company, Inc.
State 4 & 15 Abandonment
 Section 36 Township 2 North, Range 68 West
 Weld County, Colorado

Site Map